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Claim 1; Page 70; 86pp; English.
                                                                                                                                                                                                                                                                                              WO200118238-A1.
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                                                                                                                                                                                                                       14-AUG-2001
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                                                                                                                                                                                                                                                                                                             15-MAR-2001
                                                                                                                                                                                                                                                                                 Synthetic
                                                                                                                                                                                                        AAG73286;
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                                        June 15, 2004, 12:22:52; Search time 55 Seconds (without alignments) 35.961 Million cell updates/sec
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Aag73230 1
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Abu60446
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Abu60443
Add 73231
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Abb89029
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
                                                                                                                                       Total number of hits satisfying chosen parameters:
                                                                                                                         1586107 seqs, 282547505 residues
                                                                                                                                                                                                                                                                                                               SUMMARIES
                                                                                                                                                                            Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                            protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                    AAG73326
ABP01506
AAU53518
ABM50037
AAX39352
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AAG73290
AAG73328
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AAY15690
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AAG73230
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ABU60442
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AAG73232
                                                                                                   BLOSUM62
Gapop 10.0 , Gapext 0.5
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1: geneseqp1980s:*

2: geneseqp1990s:*

4: geneseqp2001s:*

5: geneseqp2001s:*

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7: geneseqp2003bs:*

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Match Length
                                                                                     1 LEHDGIN 7
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3 AAYS5707 2 AAW60953 AAW60952 3 AAG49408 2 AAR37963 4 AAW84389 4 AAW84389 6 AAW84489 6 AAW834647 6 AAW834646 6 AAW82620 6 AAW82620 6 AAW82620 6 AAW8266 6 AAW8387 6 AAW8766 6 AAW8766	5 ABG93329 ALIGNMENTS
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New fluorogenic compositions whose fluorescence level increases in the presence of active proteases, useful for detecting and localizing protease activity in biological samples, particularly in frozen tissue Protease detection; peptide cleavage; enzyme activity; fluorogenic; viral infection; cancer metastasis; emphysema; arthritis; thrombosis; haemophilia. Protease indicator compound peptide #15 AAG73286 standard; peptide; 7 AA 11-SEP-2000; 2000WO-US024882 99US-00394019 (first entry) Packard BS; (ONCO-) ONCOIMMUNIN INC WPI; 2001-389573/41.

The present invention describes fluorogenic compositions which can be used for the detection of protease activity. This can be useful as an indicator of viral infection, cancer metastasis, haemophilia, emphysema, thrombosis and arthritis. The fluorogenic compositions comprise a peptide, a peptide spacer and a donor and an acceptor fluorophore. The peptide is clasaved by a protease and the fluorophores can then be detected. The present sequence is one of the peptides described in the exemplification of the invention.

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Gaps

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This invention describes a novel indicator composition (referred as homonoubly labeled compositions) comprising a polypeptide backbone or a nucleic acid backbone joining two chromophores of the same species whereby the chromophores form an H-dimer resulting in quenching of the fluorescence of a change in the absorbance indicates that the cfluorescence or a change in absorbance indicates that the cfluorescence or a change in absorbance indicates that the cfluorescence or a change in absorbance indicates that the protease in fluorescence or a change in absorbance indicates that the protease in cleaves the polypeptide backbone. The indicator is attached to a solid support inside a mammalian, yeast or insect cell. The composition bears a cleaves the polypeptide backbone. The indicator is attached to a solid support inside a mammalian, yeast or insect cell. The composition bears of hydrophobic group, 9-fluorenecarboxylic group, 1-florenecarboxylic group, 4-florenecarboxylic group, 7-fluorenecarboxylic group, 4-methoxyretityl (Mmt), 4-methoxyretityl (M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indicator composition comprising polypeptide or nucleic acid backbone joining two same chromophores resulting in quenching of fluorescence of/change in absorbance of chromophores, useful for detecting protease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Protease; indicator; chromophore; H-dimer; fluorescence; absorbance; nuclease; screening; fluorophore; substrate cleavage.
                                                                                 ;
Length 7;
Score 39; DB 4; Length 7; Pred. No. 1.4e+06; O; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Protease binding peptide motif SEQ ID 166.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Page 35; 97pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                ABU60442 standard; peptide; 7 AA.
Query Match
Best Local Similarity 100.0%;
Matches 7; Conservative 0
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       therefore they are easily detected in biological samples. The fluorogenic protease indicators utilise high efficiency fluorophores and are able to achieve a high degree of quenching while providing a strong signal when the quench is released by cleavage of the peptide substrate. The high signal allows detection of very low levels of protease activity. Thus the detection of protease indicators are particularly well suited for in situ detection of protease activity, ABUGOS37-ABUGO477 represent peptides use to illustrate the method described in the disclosure of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention describes fluorogenic compositions which can be usefill as an used for the detection of protease activity. This can be usefill as an indicator of viral infection, cancer metastasis, haemophilia, emphysema, thrombosis and arthritis. The fluorogenic compositions comprise a peptide, a peptide spacer and a donor and an acceptor fluorophore. The peptide is cleaved by a protease and the fluorophores can then be detected. The present sequence is one of the peptides described in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New fluorogenic compositions whose fluorescence level increases in the presence of active proteases, useful for detecting and localizing protease activity in biological samples, particularly in frozen tissue
absorption of light, interfered with by background molecules;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Protease detection; peptide cleavage; enzyme activity; fluorogenic; viral infection; cancer metastasis; emphysema; arthritis; thrombosis;
                                                                                                                                                                                                                                  Gaps
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                                                                                                                                                                                                  Length 7;
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                                                                                                                                                                                                  100.0%; Score 39; DB 5; L
100.0%; Pred. No. 1.4e+06;
iive 0; Mismatches 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                            AAG73324 standard; peptide; 18 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 4; Page 71; 86pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /label= OTHER
/note= "design
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   'label= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       11-SEP-2000; 2000WO-US024882
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                                                                                                                                                                                 Query Match
Best Local Similarity luv..
7; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2001-389573/41.
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                                                                                                                                                                   Sequence 7 AA;
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Modified-site
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic.
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exemplification of the invention

Protease indicator compound peptide #17.

(first entry)

14-AUG-2001

AAG73288;

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AAG73288 standard; peptide; 7

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RESULT 5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New fluorogenic compositions whose fluorescence level increases in the presence of active proteases, useful for detecting and localizing protease activity in biological samples, particularly in frozen tissue
                                                                                                                                                                                                                                    e; enzyme activity; fluorogenic; emphysema; arthritis; thrombosis;
                                                           Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%; Score 39; DB 4; Length 18; 100.0%; Pred. No. 0.46; ive 0; Mismatches 0; Indels
                                      Query Match
100.0%; Score 39; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.46;
Matches 7; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                       /label= OTHER
/note= "modified by fluorophore"
                                                                                                                                                                                                                                       Protease detection; peptide cleavage; viral infection; cancer metastasis; en
                                                                                                                                                                                                                                                                                                   Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Page 29; 86pp; English.
                                                                                                                                                      AAG73230 standard; peptide; 18 AA.
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                                                                                                                                                                                                                  Protease binding site #164
                                                                                                                                                                                              (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                       (ONCO-) ONCOIMMUNIN INC.
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Best Local Similarity
77, Conserve
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                   Sequence 18 AA
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Modified-site
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                                                                                                                                                                                                                                                            haemophilia.
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The present invention describes fluorogenic compositions which can be used for the detection of protease activity. This can be useful as an indicator of viral infection, cancer metastasis, heamophilia, emphysema, thrombosis and arthritis. The fluorogenic compositions comprise a peptide, a peptide spacer and a donor and an acceptor fluorophore. The peptide is cleaved by a protease and the fluorophores can then be detected. The present sequence is one of the peptides described in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New fluorogenic compositions whose fluorescence level increases in the presence of active proteases, useful for detecting and localizing protease activity in biological samples, particularly in frozen tissue
Protease detection; peptide cleavage; enzyme activity; fluorogenic; viral infection; cancer metastasis; emphysema; arthritis; thrombosis; haemophilia.
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Best Local Similarity 100.
Matches 6; Conservative
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ABU60444
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Gaps

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Conservative

LEHDGIN 12 1 LEHDGIN 7

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AAG73232 standard; peptide; 18 AA.

us-uv-sv4-ulyc-zlz.rag

AAG73232;

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This invention describes a novel indicator composition (referred as homodoubly labeled compositions) comprising a polypeptide backbone or a muchalic acid backbone joining two chromophores of the same species whereby the chromophores form an H-dimer resulting in guenching of the whereby the chromophores form an H-dimer resulting in guenching of the fluorescence of or a change in absorbance indicates that the carease in fluorescence or a change in absorbance indicates that the cliented from the second molecule and indicator is attached to a solid support inside a mammalian, yeast or insect cell. The composition bears a hydrophobic group such as Fmcc, 9-fluoreneacetyl group, 1-fluorenearboxylic group, such as Fmcc, 9-fluoreneacetyl group, 1-fluorenearboxylic group, 9-florenearboxylic group, 1-fluorenearboxylic group, 9-fluoreneacetyl group, 1-fluorenearboxylic 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       achieve a high degree of quenching while providing a strong signal when the quench is released by cleavage of the peptide substrate. The high signal allows detection of very low levels of protease activity. Thus the fluorogenic protease indicators are particularly well suited for in situ detection of protease activity. ABU60357-ABU6047 represent peptides use to illustrate the method described in the disclosure of the invention
                                                                                                                                                                                                                                                                                                                                                                                            Indicator composition comprising polypeptide or nucleic acid backbone joining two same chromophores resulting in quenching of fluorescence of/change in absorbance of chromophores, useful for detecting protease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; Page 35; 97pp; English
                                                                                                                                21-DEC-2001; 2001WO-US049781
                                                                                                                                                                                   22-DEC-2000; 2000US-00747287
                                                                                                                                                                                                                                        (ONCO-) ONCOIMMUNIN INC
                                                                                                                                                                                                                                                                                                                                             WPI; 2002-698548/75.
                         WO200261038-A2
                                                                              08-AUG-2002
                                                                                                                                                                                                                                                                                          Packard BS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             activity
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Gaps ô 0; Indels 89.7%; Score 35; DB 5; Length 7; 100.0%; Pred. No. 1.4e+06; ive 0; Mismatches 0; Indels 6; Conservative Query Match Best Local Similarity Sequence 7 AA; Best Loca Matches

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EHDGIN 7

RESULT 7

EHDGIN 7 Ŋ

The present invention describes fluorogenic compositions which can be used for the detection of protease activity. This can be useful as an indicator of viral infection, cancer metastasis, haemophilia, emphysema, thrombosis and arthritis. The fluorogenic compositions comprise a peptide, a peptide spacer and a donor and an acceptor fluorophore. The peptide is cleaved by a protease and the fluorophores can then be detected. The present sequence is one of the peptides described in the exemplification of the invention New fluorogenic compositions whose fluorescence level increases in the presence of active proteases, useful for detecting and localizing protease activity in biological samples, particularly in frozen tissue Protease detection; peptide cleavage; enzyme activity; fluorogenic; viral infection; cancer metastasis; emphysema; arthritis; thrombosis; haemophilia. /label= OTHER /note= "modified by fluorophore" Location/Qualifiers Disclosure; Page 29; 86pp; English. 11-SEP-2000; 2000WO-US024882. 99US-00394019 Protease binding site #166 (first entry) Komoriya A, Packard BS; (ONCO-) ONCOIMMUNIN INC WPI; 2001-389573/41. Sequence 18 AA; WO200118238-A1 Key Modified-site 10-SEP-1999; 14-AUG-2001 15-MAR-2001 Synthetic samples.

. 0 89.7%; Score 35; DB 4; Length 18; 100.0%; Pred. No. 3; ive 0; Mismatches 0; Indels Protease indicator compound peptide #55. AAG73326 standard; peptide; 18 AA. 14-AUG-2001 (first entry) Local Similarity 100. 2 EHDGIN 7 AAG73326; Best Loca Matches AAG73326
ID AAG7
XX AC AAG7
XX I14-A
DT I14-A
DE Prot
XX Prot
XX Prot
XX Prot
XX Prot RESULT 8 à

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Query Match

Protease detection; peptide cleavage; enzyme activity; fluorogenic; viral infection; cancer metastasis; emphysema; arthritis; thrombosis; haemophilia.

WO200192523-A2

06-DEC-2001

30-MAY-2000; 2000US-0206132P. 29-AUG-2000; 2000US-0228716P. 29-MAY-2001; 2001WO-US010836

Shimkets RA, Leach MD; (CURA-) CURAGEN CORP

WPI; 2002-106308/14.

N-PSDB; ABN17258

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The present invention describes fluorogenic compositions which can be used for the detection of protease activity. This can be useful as an indicator of viral infection, cancer metastasis, haemophilia, emphysema, thrombosis and arthritis. The fluorogenic compositions comprise a peptide, a peptide spacer and a donor and an acceptor fluorophore. The peptide is claaved by a protease and the fluorophores can then be detected. The present sequence is one of the peptides described in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                    New fluorogenic compositions whose fluorescence level increases in the presence of active proteases, useful for detecting and localizing protease activity in biological samples, particularly in frozen tissue
                                                                    /label= OTHER
/note= "designated J in the specification"
                                                                                                                              /note= "designated J in the specification"
                                           Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 4; Page 71; 86pp; English.
                                                                                                                  /label= OTHER
                                                                                                                                                                                                                                                   99US-00394019.
                                                                                                                                                                                                                       2000WO-US024882.
                                                                                                                                                                                                                                                                                                             Packard BS;
                                                                                                                                                                                                                                                                               (ONCO-) ONCOIMMUNIN INC
                                                                                                                                                                                                                                                                                                                                           WPI; 2001-389573/41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 18 AA;
                                                                                                                                                             WO200118238-A1
                                                         Modified-site
                                                                                                   Modified-site
                                                                                                                                                                                                                                                     10-SEP-1999;
                                                                                                                                                                                                                                                                                                               Komoriya A,
                                                                                                                                                                                           15-MAR-2001
               Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                 samples.
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                             Gaps
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89.7%; Score 35; DB 4; Length 18; 100.0%; Pred. No. 3; 0; Indels ive 0; Mismatches 0; Indels
                               6; Conservative
 Query Match
Best Local Similarity
                 Best Loc
Matches
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EHDGIN 12 2 EHDGIN 7 ò d

ABP01506 standard; protein; 58 AA. (first entry) 24-JUN-2002 ABP01506; RESULT 9

Human ORFX protein sequence SEQ ID NO:2994.

Human, open reading frame; ORFX; gene therapy; cancer; cirrhosis; hyperproliferative disorder; psoriasis; benign tumour; haemorrhage; degenerative disorder; osteoarthritis; neurodegenerative disorder; cardiovascular disease; diabetes mellitus; systemic lupus erythematosus; hypertension; hypothyroidism; cholesterol ester storage disease; immune deficiency; immune disorder; infectious disease; autoimmune disorder; rheumatoid arthritis; autoimmune thyroiditis; myasthenia gravis.

Homo sapiens

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The present invention describes substantially purified human proteins (referred to as open reading frame, ORFX, where X is 1-11491 (see Table 1 in the specification). ABNIS762 to ABNIS7252 encode the human ORFX proteins given in ABP0010 to ABP11500. ORFX proteins are useful for treating or preventing a pathology associated with an ORFX-associated disorder. ORFX polynucleotide syndrome associated with ORFX-associated disorder. ORFX polynucleotide syndrome associated with ORFX-associated disorder. ORFX polynucleotide sequences can be used in gene therapy. ORFX sequences can be used in the treatment of cancer, hyperproliferative disorders, intrhosis of liver, psoriasis, benign tumours, keloid, degenerative disorders, paemerrhage, osteoarthritis, neurodegenerative disorders, disorders related to organ transplantation, cardiovascular diseases, diabetes mellitus, systemic lupus erythematosus, hypertension, hypothyroidism, cholesterol ester storage disease, various immune deficiencies and disorders infectious disorders under disorders such as multiple sclerosis, infectious disease, autoimmune thyroiditis, myasthenia gravis, graft-versus-host disease and autoimmune inflammatory eye disease. ORFX proteins are also carburitis, autoimmune inflammatory eye disease. ORFX proteins are also bone degenerating burns, incisions, ulcers, for treating burns, incisions, ulcers, for treating observation and treatment of lung or liver fibrosis, protection or regeneration and treatment of lung or liver fibrosis, systemic cytokine damage. N.B. The sequence data for this patent did not form part of the printed specification, but was obtained in electronic form part of the printed specification, but was obtained in electronic form part of the printed specification, but was obtained in electronic form at directly from WIPO at ftp.wipo.int/pub/published_pot_ergeture.
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                                                                                                                                                                                                                                                                                                                                                                                                             Novel human polypeptides and polynucleotides useful for diagnosing, preventing and treating cardiovascular disease, neurodegenerative, hyperproliferative disorders and autoimmune disorders.
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85.7%; Pred. No. 17;
1ive 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; SEQ ID NO 2994; 1037pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 85.7
Matches 6; Conservative
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||||||: 16 LEHDGIS 22 ò 셤 AAU53518 standard; protein; 124 AA. (first entry) 27-FEB-2002 AAU53518;

RESULT 10 AAU53518

Propionibacterium acnes immunogenic protein #14414.

SAPHO syndrome; synovitis; acne; pustulosis; hypertosis; osteomyelitis; uveitis; endophthalmitis; bone; joint; central nervous system; ELISA; inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay; dermatological; osteopathic; neuroprotectant.

Maisonneuve JL; Jones R, Carter D;

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Mitcham JL, Skeiky YAW, Persing DH, Bhatia A,
Zhang Y, Wang S, Jen S, Lodes MJ, Benson DR,
Barth B, Vallieve-Douglass J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAY39352 standard; peptide; 30 AA.
                                                                                11-OCT-2002; 2002WO-US032727.
                                                                                                                         15-OCT-2001; 2001US-00978825.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            13-DEC-1999 (first entry)
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Best Local Similarity 85.79
....hes 6; Conservative
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N-PSDB; ACF64489.
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                                                                                                                                                             (CORI-) CORIXA CORP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 124 AA;
    WO2003033515-A1
                                          24-APR-2003
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      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequences AAU39105-AAU68017 represent Propionibacterium acnes immunogenic polypeptides. The proteins and their associated DNA sequences are used in the treatment, prevention and diagnosis of medical conditions caused by P. acnes. The disorders include SAPHO syndrome (synovitis, acne, p. acnes; and osteomyelitis), uveitis and endophthalmitis. P. acnes is also involved in infections of bone, joints and the central nervous system, however it is particularly involved in the inflammatory lesions associated with acne vulgaris. A method for detecting the presence or absence of P. acnes in a patient comprises contacting a sample with a binding agent that binds to the proteins of the invention and determining the amount of bound protein in the sample. The polypeptides may be used as antigens in the production of antibodies and determining the amount of bound protein in the sample. The commendate expression and activity of P. acnes polypeptides and determining the amount of the interpodies may also be used as specific for P. acnes infections. The antibodies and adjapostic agents for determining P. acnes proteince, for example, by enzyme linked immunosorbent assay (EliSA). Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                   Propionibacterium acnes polypeptides and nucleic acids useful for vaccinating against and diagnosing infections, especially useful for treating acne vulgaris.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Propionibacterium acnes predicted ORF-encoded polypeptide #14713.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Acne vulgaris; antiseborrhoeic; dermatological; antibacterial; immunostimulant; immune response; vaccine.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        h Similarity 85.7%; Pred. No. 39; 6; Conservative 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                Mitcham JL, Wang SS, Bhatia A;
, Jen S, Carter D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 1; SEQ ID NO 14713; 1069pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABM50037 standard; protein; 124 AA.
                                                                                                                                                           21-APR-2000; 2000US-0199047P.
02-JUN-2000; 2000US-0208841P.
07-JUL-2000; 2000US-0216747P.
                                                                                                                         20-APR-2001; 2001WO-US012865
                                                                                                                                                                                                                                                                                  Skeiky YAW, Persing DH, M
L'maisonneuve J, Zhang Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-OCT-2003 (first entry)
Propionibacterium acnes
                                                                                                                                                                                                                                                                                                                                            WPI; 2001-616774/71.
N-PSDB; AASS9560.
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LEHDGIS 40
                                                                                                                                                                                                                                              (CORI-) CORIXA CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 124 AA,
                                          WO200181581-A2
                                                                                01-NOV-2001
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The invention relates to an isolated polymucleotide (ACF64435-ACF64733)

cncoding a Propionibacterium acnes protein. The invention also relates to encoding a Propionibacterium acnes protein. The invention also relates to immunogenic fragments of P. acnes polypeptides. The invention additionally encompasses expression vectors and host cells comprising a colymucleotide of the invention; antibodies against polypeptides of the invention; and an isolated T cell population comprising T cells prepared to invention; a method for stimulating an immune response specific for a P. acnes polypeptide of the invention; a colympositide and an isolated T cell population comprising T cells prepared to polymucleotides, antibodies, fusion proteins, T cell populations, or antigen-presenting cells that express the polypeptide; a method and xit for detecting or determining the presence or absence of P. acnes in a patient; and a method for inhibiting the development of P. acnes in a conference of patient. The P. acnes polypeptides, polympetides, 
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New Propionibacterium acnes polypeptides and polynucleotides encoding the polypeptide, useful for diagnosing, preventing or treating acne vulgaris, or for stimulating an immune response specific for a P. acnes protein.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Linker peptide consisting of six tetrapeptide caspase target sites.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  .
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85.7%; Pred. No. 39;
tive 1; Mismatches 0; Indels
                                                                                                                                                                                                                               Example 1; SEQ ID NO 14713; 1481pp; English,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EXEXEXEX
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Propionibacterium acnes

RESULT 11

13-MAR-2000; 2000WO-EP002219

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This sequence is a linker peptide consisting of six tetrapeptide caspase target sites, each of which is followed by a glycine residue. The glycine residues act as stabilising residues in the Nend rule degradation pathway in yeast. This linker sequence is an essential part of the fusion protein of the invention. The invention relates to a protease-dependent reporter-repressor fusion protein, where protease cleavage increases the activity of the resporter. The fusion protein consists of a reporter polypeptide linked to a linker polypeptide which is linked to a repressor polypeptide and is operably linked to the linker polypeptide and is operably linked to the linker polypeptide of the proteins are useful in assays to identify proteases that recognise specific protease cleavage site increases the cutivity of the reporter. The fusion proteins are useful in assays to identify proteases limibitors or activators. The fusion proteins can be used as reporters e.g. caspase activity molecules that function in living
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                                                                                                                                                                                                                                                                                       protease-dependent reporter fusion protein construct useful in assays
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caspase; linker peptide; caspase; tetrapeptide; target site.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Murine CRAM-1 tyrosine kinase phosphorylation signature #2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (CALY ) CALIFORNIA INST OF TECHNOLOGY.
                                                                                                                                                                                                                                                                                                                                        Example 1; Page 34; 64pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAB27270 standard; peptide; 7 AA
                                                                                                                                                   98US-0078721P.
                                                                                                                     99WO-US006070
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                             to identify proteases
                                                                                                                                                                                                                              Hawkins CV;
                                                                                                                                                                                                                                                            WPI; 1999-571832/48
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Best Local Similarity
Matches 5; Conserv
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11 IEHDGI 16
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                                                                                                                     19-MAR-1999;
                                                                                                                                                    20-MAR-1998;
17-MAR-1999;
                                                          WO9947640-A1
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                                                                                        23-SEP-1999
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The present sequence comprises one of the two tyrosine kinase phosphorylation signatures found in the murine confluency regulated adhesion molecule 1 (CRAM-1, also known as JAM-2). CRAM-1 is a member of the immunoglobulin superfamily (1g Sf). The CRAM-1 protein and coding sequence can be used in the treatment of cancer, inflammation, to modulate cell-cell interactions and angiogenesis, and in the modulation of wound healing
                                                                                                                                    Isolated human Confluency Regulated Adhesion Molecule 1 or 2 (CRAM-1 or CRAM-2) polypeptide, useful for treatment of tumors, inflammation reactions and modulating vascular permeability.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New fluorogenic compositions whose fluorescence level increases in the presence of active proteases, useful for detecting and localizing protease activity in biological samples, particularly in frozen tissue
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Protease detection; peptide cleavage; enzyme activity; fluorogenic; viral infection; cancer metastasis; emphysema; arthritis; thrombosis;
                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                76.9%; Score 30; DB 3; Length 7; 66.7%; Pred. No. 1.4e+06; ive 2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Protease indicator compound peptide #19.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAG73290 standard; peptide; 7 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 1; Page 70; 86pp; English.
                                                                                                                                                                                               Example; Page 23; 59pp; English.
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                           99EP-00200746
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                                                                                  Aurrand-Lions
                                                      (RMFD-) RMF DICTAGENE SA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2001-389573/41.
                                                                                                              WPI; 2000-587436/55
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                          : | | | : |
1 KADGVN 6
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                                                                                                                                                                                                                                                                                                                                           Sequence 7 AA;
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                           11-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic
                                                                                  BA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAG73290;
                                                                                  Imhof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 14
AAG73290
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This invention describes a novel indicator composition (referred as homodoubly labeled compositions) comprising a polypeptide backbone or a nucleic acid backbone joining two chromophores of the same species whereby the chromophores form an H-dimer resulting in quenching of the fluorescence of or a change in the absorbance indicates that the forescence or a change in absorbance indicates that the first molecule and the second molecule are interacting. The indicator is useful for detecting the activity of a protease, where an increase in fluorescence or a change in absorbance indicates that the protease in cleaves the polypeptide backbone. The indicator is attached to a solid support inside a mammalian, yeast or insect cell. The composition bears hydrophobic group such as fluorencearboxylic group, 9-florencearboxylic group, 9-florencearboxylic group, 1-fluorencearboxylic group, 9-florencearboxylic group, 1-fluorencearboxylic group, barzyloxycarbonyl, Manthyl (Man), Trityl (Trt), 4-methyltrityl (Mat), Mesitylene-2-sulphonyl (Mas), 4,4'-fluorenting charactering protease or nuclease activity (or the presence of
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used for the detection of protease activity. This can be useful as an indicator of vixal infection, cancer metastasis, haemophilia, emphysema, thrombosis and arthritis. The fluorogenic compositions comprise a peptide, a peptide spacer and a donor and an acceptor fluorophore. The peptide is cleaved by a protease and the fluorophores can then be detected. The present sequence is one of the peptides described in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indicator composition comprising polypeptide or nucleic acid backbone joining two same chromophores resulting in quenching of fluorescence of/change in absorbance of chromophores, useful for detecting protease
                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Protease, indicator, chromophore, H-dimer, fluorescence, absorbance, nuclease, screening, fluorophore, substrate cleavage.
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                                                                                                                                                                                               76.9%; Score 30; DB 4; Length 7; 100.0%; Pred. No. 1.4e+06; ive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Protease binding peptide motif SEQ ID 170.
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                                                                                                                                                                                                                                                                                                                                                                                                                       ABU60446 standard; peptide; 7 AA.
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                                                                                                                                                                                                 Query Match
Best Local Similarity
Matches 5; Conserv
                                                                                                                                                                                                                                                                               3 HDGIN 7
                                                                                                                                                                                                                                                                                                            3 HDGIN 7
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                                                                                                                                                               Sequence 7 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic.
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ABU60446
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cultured adherent cells), a biological sample such as tissue, biopsy, cultured adherent cells), a biological sample such as tissue, biopsy, biological sample such as tissue, biopsy, biological sample such as tissue, blood, urine, saliva, lymph, con biopsy.

The indicator composition is also useful for screening a test agent for the ability to modulate a protease (or a nuclease, lipase, etc.). The indicator reagents allow rapid determination of protease activity in a matter of minutes in a single-step procedure. The fluorescent indicators both absorb and emit in the visible range (400-800 mm). These signals are therefore not readily quenched by, nor is activation of the fluorophores, that is, absorption of light, interfered with by background molecules; therefore they are easily detected in biological samples. The fluoropenic protease indicators utilise high efficiency fluorophores and are able to achieve a high degree of quenching while providing a strong signal when the quench is released by cleavage of the peptide substrate. The high signal allows detection of very low levels of protease activity. Thus the fluorogenic protease indicators are particularly well suited for in situ detection of protease activity, are particularly well suited for in situ detection of protease activity. Assussing the invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Protease detection; peptide cleavage; enzyme activity; fluorogenic; viral infection; cancer metastasis; emphysema; arthritis; thrombosis; haemophilia.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Protease indicator compound peptide #57.
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Best Local Similarity 100.0
Matches 5; Conservative
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Modified-site
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Sequence 18 AA;
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                          The present invention describes fluorogenic compositions which can be used for the detection of protease activity. This can be useful as an indicator of viral infection, cancer metestasis, haemophilia, emphysema, thrombosis and arthritis. The fluorogenic compositions comprise a peptide, a peptide spacer and a donor and an acceptor fluorophore. The peptide is cleaved by a protease and the fluorophores can then be detected. The present sequence is one of the peptides described in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention describes fluorogenic compositions which can be used for the detection of protease activity. This can be useful as an indicator of viral infection, cancer metastasis, haemophilia, emphysems, thrombosis and arthritis. The fluorogenic compositions comprise a peptide, a peptide spacer and a donor and an acceptor fluorophore. The peptide is cleaved by a protease and the fluorophores can then be detected. The present sequence is one of the peptides described in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New fluorogenic compositions whose fluorescence level increases in the presence of active proteases, useful for detecting and localizing protease activity in biological samples, particularly in frozen tissue
                                                                                                                                                                                                                                                                                                                                                               Protease detection; peptide cleavage; enzyme activity; fluorogenic; viral infection; cancer metastasis; emphysema; arthritis; thrombosis; haemophilia.
                                                                                                                                                                          Gaps
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                                                                                                                                                   /label= OTHER
/note= "modified by fluorophore"
                                                                                                                                                                                                                                                                                                                                                                                                                                     Location/Qualifiers
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                                                                                                                                                                                                                                                                             AAG73234 standard, peptide; 18 AA.
          Claim 4; Page 71; 86pp; English.
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                                                                                                                                           Query Match
Best Local Similarity luv..
5, Conservative
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                                                                                                                                                                                                                                                       RESULT 17
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AAY15618-Y15759 represent peptides used to make the fluorogenic or fluorescent reporter molecules of the invention. These molecules contain a peptide molety (e.g. present sequence) which acts as a substrate for compounds can be used as fluorogenic or proteace or peptidase enzymes. The compounds can be used as fluorogenic or fluorescent substrates for enzymes. Depending on the peptide molety used, the fluorescent molecules can the apoptosis cascade in calls; to determine whether a test compound has an effect on an enzyme involved in the apoptosis cascade in calls; to determining the activity of an enzyme involved in the apoptosis cascade in calls; for for determining the sensitivity of an animal with cancer to treatment with chemotherapeutic agents or enhances call death of test calls; for determining whether a test substance inhibits, prevents, causes or enhances call death of test calls; for determining whether a test compound has an effect on the activity of a viral protease in calls; and for measuring the activity of a protease or whether a test substance has an effect on the activity of a protease or
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                                                                     Gaps
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                     Length 18;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    Peptide used to make fluorescent reporter molecules.
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Pred. No. 1.4e+06;
                     DB 4;
                                  100.0%; Pred. No.
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                                                                                                                                                                                                                                                                                                    AAY15690 standard; peptide; 5 AA
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98US-00033661.
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                     76.98;
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Conservative
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Best Local Similarity
Matches 5; Conserv
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                                                                                                                        3 HDGIN 7
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03-MAR-1998;
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us-09-394-019c-212.rag

WO200261038-A2

Synthetic

08-AUG-2002

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RESULT 21
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                                                                                                                                                                                                                                                                                                                                                                                               New fluorogenic compositions whose fluorescence level increases in the presence of active proteases, useful for detecting and localizing protease activity in biological samples, particularly in frozen tissue
                                                                                                           Protease detection; peptide cleavage; enzyme activity; fluorogenic; viral infection; cancer metastasis; emphysema; arthritis; thrombosis;
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                                                                                Protease indicator compound peptide #16
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AAG73287 standard; peptide; 7 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 1; Page 70; 86pp; English.
                                                                                                                                                                                                                                                       11-SEP-2000; 2000WO-US024882
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                                                        entry)
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Matches 6; Conserv
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                                                                                                                                      haemophilia
                                                      14-AUG-2001
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                                                                                                                                                                                                                           15-MAR-2001
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                           AAG73287;
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This invention describes a novel indicator composition (referred as homocobulty labeled compositions) comprising a polypeptide backbone or a nucleic acid backbone joining two chromophores of the same species whereby the chromophores form an H-dimer resulting in quenching of the chromophore of or a change in the absorbance indicates that the cliucrescence of or a change in absorbance indicates that the indicator is useful for detecting the activity of a procease, where an increase in fluorescence or a change in absorbance indicates that the indicator is useful for detecting the activity of a procease, where an increase in fluorescence or a change in absorbance indicates that the protease in fluorescence or a change in absorbance indicates that the protease in fluorescence or a change in absorbance indicator is attached to a solid support inside a mammalian, yeat or insect cell. The composition bears a hydrophobic group, benzyloxycabonyl, Kanthyl (Kan), Trityl (Trt), 4 carboxylic group, 9-florenearboxylic group, 1 (Mrt), 4 methoxytrintyl (Mrt), 4 methoxytrin
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                                                                                                                                                                                                                                                                                                                              Indicator composition comprising polypeptide or nucleic acid backbone joining two same chromophores resulting in quenching of fluorescence of/change in absorbance of chromophores, useful for detecting protease activity.
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                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; Page 35; 97pp; English.
                                                                                                                       21-DEC-2001; 2001WO-US049781.
                                                                                                                                                                  22-DEC-2000; 2000US-00747287.
                                                                                                                                                                                                                                                   Komoriya A;
                                                                                                                                                                                                           ONCO-) ONCOIMMUNIN INC
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Matches 6; Conserv
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                                                                                                                                                                                                                                                   Packard BS,
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AAG73231 standard; peptide; 18

haemophilia

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15-MAR-2001
                                           Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABB89029
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               X # X B X B X S X X X E X H X Y
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention describes fluorogenic compositions which can be used for the detection of protease activity. This can be useful as an indicator of viral infection, cancer metastasis, haemophilia, emphysema, thrombosis and arthritis. The fluorogenic compositions comprise a peptide, a peptide spacer and a donor and an acceptor fluorophore. The peptide is cleaved by a protease and the fluorophores can then be detected. The present sequence is one of the peptides described in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New fluorogenic compositions whose fluorescence level increases in the presence of active proteases, useful for detecting and localizing protease activity in biological samples, particularly in frozen tissue
                                                                                                                                                                         rrotease detection; peptide cleavage; enzyme activity; fluorogenic; viral infection; cancer metastasis; emphysema; arthritis; thrombosis; haemophilia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Protease detection; peptide cleavage; enzyme activity; fluorogenic; viral infection; cancer metastasis; emphysema; arthritis; thrombosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
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                                                                                                                                                                                                                                                                                                                                                                     /label= OTHER
/note= "modified by fluorophore"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Protease indicator compound peptide #54.
                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Page 29; 86pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAG73325 standard; peptide; 18 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      99US-00394019.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11-SEP-2000; 2000WO-US024882
                                                                                                                                                  Protease binding site #165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (ONCO-) ONCOIMMUNIN INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Packard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2001-389573/41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LETDGIN 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 LEHDGIN 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 18 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                        WO200118238-A1
                                                                                                                                                                                                                                                                                                                              Key
Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               14-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Komoriya A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15-MAR-2001
                                                                                                                                                                                                                                                                                     Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAG73325;
                                                                  AAG73231;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 22
AAG73325
AAG73231
ID AAG7
XX
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                                                                SO COCOCOCO COCOCO COCO
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The present invention describes fluorogenic compositions which can be used for the detection of protease activity. This can be useful as an indicator of viral infection, cancer metestasis, haemophilia, emphysema, thrombosis and arthritis. The fluorogenic compositions comprise a peptide, a peptide spacer and a donor and an acceptor fluorophore. The epetide is cleaved by a protease and the fluorophores can then be detected. The present sequence is one of the peptides described in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New fluorogenic compositions whose fluorescence level increases in the presence of active proteases, useful for detecting and localizing protease activity in biological samples, particularly in frozen tissue samples.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Babesia microti antigenic epitope fusion protein peptide BMN N term 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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                                                                                                                                                                           /note= "designated J in the specification"
                                                                                     'note= "designated J in the specification'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 74.4%; Score 29; DB 4; Length 18; Best Local Similarity 85.7%; Pred. No. 51; Matches 6; Conservative 0; Mismatches 1; Indels
   Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 4; Page 71; 86pp; English.
                                                            label= OTHER
                                                                                                                                                 'label= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                09-MAY-2001; 2001WO-US015192
                                                                                                                                                                                                                                                                                                                                                            11-SEP-2000; 2000WO-US024882
                                                                                                                                                                                                                                                                                                                                                                                                                     99US-00394019
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ABB89029 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Packard BS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (ONCO-) ONCOIMMUNIN INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2001-389573/41.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 18 AA;
                                                                                                                                                                                                                                          WO200118238-A1
Key
Modified-site
                                                                                                                  Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                     10-SEP-1999;
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HOUGHTON R L. SLEATH P R. MCNEILL P D. HOMER M J. SECRIST H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Arabidopsis thaliana.
                                                                                   WPI; 2003-801279/75
                                                                                                                                                                                                                                                                                                                                                6 EHDNIN 11
                                                                                                                                                                                                                                                                                                                              2 EHDGIN 7
                                                                                                                                                                                                                                                                        Sequence 20 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25-FEB-1999;
05-MAR-1999;
03-MAR-1999;
23-MAR-1999;
25-MAR-1999;
01-APR-1999;
06-APR-1999;
06-APR-1999;
16-APR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                06-SEP-2000
                                                                 Secrist H;
                                                                                                                                                                                                                                                                                                                                                                                                                AAG07964;
  (HOUG/)
(SLEA/)
(MCNE/)
(HOME/)
(SECR/)
                                                         Reed SG,
                                                                                                                                                                                                                                                                                                                                                                             RESULT 25
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                                                                                                                              New Babesia microti antigens, useful for diagnosing and treating B. microti infection, and as component of a composition for enhancing immune response against B. microti infections.
                                                                                                                                                                                     The present invention relates to novel Babesia microti antigens and their coding sequences. The B. microti antigens, antigenic epitopes of such antigens, and compositions comprising such antigens are useful for diagnosing and treating B. microti infection. The compositions are especially useful for enhancing immune response against B. microti infection. The present sequence was used to illustrate the invention
                                                                                    Homer MJ;
                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                  BMNI; immune response; Babesia microti infection; immunostimulant; antiparasitic; Babesia microti antigen.
                                                                                                                                                                                                                                                                                          ;
0
                                                                                  Sleath PR, Mcneill PD,
                                                                                                                                                                                                                                                                       74.4%; Score 29; DB 5; Length 20;
83.3%; Pred. No. 57;
ive 0; Mismatches 1; Indels
                                                                                  Lodes MJ, Houghton RL,
                                                                                                                                                                   Claim 2; Page 193; 195pp; English
                                                                                                                                                                                                                                                                                                                                                                            ADE06161 standard; peptide; 20 AA.
10-MAY-2000; 2000US-00569098.
27-JUN-2000; 2000US-0065724.
07-SEP-2000; 2000US-00656688.
13-DEC-2000; 2000US-00568436.
13-DEC-2000; 2000US-00731178.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-OCT-1996; 96US-00723142.
24-APR-1997; 97US-00845258.
11-DEC-1997; 97US-00896571.
05-APR-1999; 97US-00286488.
17-MAR-2000; 2000US-00569098.
27-JUN-2000; 2000US-00660998.
27-JUN-2000; 2000US-00665688.
10-OCT-2000; 2000US-00685435.
13-DEC-2000; 2000US-00685435.
13-DEC-2000; 2000US-00737178.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     09-MAY-2001; 2001US-00853079
                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 83.3
Matches 5, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                  BMNI-related peptide #31
                                                                                                              WPI; 2002-216691/27
                                                                (CORI-) CORIXA CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REED S G.
LODES M J.
                                                                                                                                                                                                                                                                                                                              EHDNIN 11
                                                                                                                                                                                                                                                                                                           2 EHDGIN 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US2003109689-A1.
                                                                                                                                                                                                                                                      Sequence 20 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Babesia microti
                                                                                                                                                                                                                                                                                                                                                                                                                29-JAN-2004
                                                                                  Reed SG, I
Secrist H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   12-JUN-2003
                                                                                                                                                                                                                                                                                                                                                                                             ADE06161
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(LODE/) 1
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ADE06161
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Protein identification; signal transduction pathway; metabolic pathway; hybridisation assay; genetic mapping; gene expression control; promoter; termination sequence.
Homer MJ;
                                                                                                                                                     New isolated polynucleotide for stimulating an immune response in a patient and/or for treating or detecting a Babesia microti infection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0;
Mcneill PD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               74.4%; Score 29; DB 7; Length 20; 83.3%; Pred. No. 57; 1; Indels tive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Arabidopsis thaliana protein fragment SEQ ID NO: 5316.
Lodes MJ, Houghton RL, Sleath PR,
                                                                                                                                                                                                                                                 Claim 10; SEQ ID NO 215; 167pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAG07964 standard; protein; 38 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                99US-0121825P.
99US-0123180P.
99US-012548P.
99US-0126264P.
99US-0126785P.
99US-0126785P.
99US-0128234P.
99US-0128234P.
99US-0128234P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    17-OCT-2000 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 83.3.
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90S - 0130449 90S - 0130510 90S - 0130510 90S - 01314491 90S - 0132485 90S - 0132486 90S - 0132486 90S - 0132486 90S - 0132863 90S - 0134218 90S - 0134218 90S - 0134218	9US-0134941 9US-0135124 9US-0135123 9US-0136021 9US-0136022 9US-01378228 9US-0137228 9US-0137228 9US-0137289 9US-0139847 9US-0139452 9US-0139452 9US-0139452 9US-0139453 9US-0139453 9US-0139453 9US-0139453 9US-0139453	99US-0139463P. 99US-0139750P. 99US-0139750P. 99US-0139817P. 99US-0139817P. 99US-0140353P. 99US-0140354P. 99US-014082P. 99US-014082P. 99US-014082P. 99US-014184P. 99US-014184P. 99US-014239P. 99US-014239P. 99US-014239P. 99US-014233P. 99US-014233P. 99US-014233P. 99US-014333P. 99US-0144086P. 99US-0144086P. 99US-0144332P. 99US-0144333P.
1. APR - 1999; 3. APR - 1999; 3. APR - 1999; 0. APR	9 MAX - 1999 1 MAX - 1999 1 MAX - 1999 4 MAX - 1999 1 MAX - 1999 8 MAX - 1999 1 JUN - 1999 2 JUN - 1999 3 JUN - 1999 4 JUN - 1999	
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990S-0144632P 990S-0144632P 990S-0144814P 990S-0145086P 990S-0145087P 990S-0145087P 990S-0145088P 990S-014508P 990S-014508P 990S-014508P 990S-0147308P 990S-0147308P 990S-0147308P 990S-0149138P 990S-015108P 990S-015508P 990S-015508P

20-7UL-1999 20-7UL-1999 21-7UL-1999 22-7UL-1999 22-7UL-1999 22-7UL-1999 23-7UL-1999 23-7UL-1999 23-7UL-1999 24-7UL-1999 25-7UL-1999 26-7UL-1999 27-7UL-1999 27-7UL-1999 28-7UL-1999 28-8EP-1999 28-8E

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Streptococcus pneumoniae encoded polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                  Black MT, Hodgson JE, Knowles DJC,
Reid RH, Zarfos PN;
                                                                                                                                                                                                                  AAW60953 standard; protein; 40 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 11; Page 54; 130pp; English
                                                                                                                                                                                                                                                                                                                                                                                                        (SMIK ) SMITHKLINE BEECHAM CORP. (SMIK ) SMITHKLINE BEECHAM PLC.
                                                                                                                                                                                                                                                                                                                                                                                       96US-0029930P.
                                                                                                                                                                                                                                                                                                                                                                      97WO-US019226.
                                                                                                         Query Match
Best Local Similarity 66.7-
                                                                                                                                                                                                                                                     13-OCT-1998 (first entry)
                                                                                                                                                                                                                                                                                                                   Streptococcus pneumoniae
                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1998-286586/25.
N-PSDB; AAV37353.
                                                                                                                                                                     13 EHDGVH 18
                                                                                                                                                    2 EHDGIN 7
                                                                                               Sequence 39 AA;
                                                                                                                                                                                                                                                                                                                                                                      27-OCT-1997;
                                                                                                                                                                                                                                                                                                                                                                                       01-NOV-1996;
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                                                                                                                                                                                                                                    AAW60953
                                                                               species
                                                                                                                                                                                                 RESULT 27
                                                                                                                                                                                                          AAW60953
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention discloses a novel family of polypeptides, designated the yerB family, required for the growth of both gram negative and gram positive bacteria. The novel polypeptide of ycfB family is defined by:

(a) a HSP score of greater than or equal to 100 when compared with one of the amino acid sequences of the ycfB family members given in the specification, when the BLAST algorithm is used with a BLOSUM62 scoring matrix; (b) concaining a set of amino acid sequences which are positively
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Novel bacterial polypeptides used to identify broad spectrum antibiotics.
                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                         ycfB polypeptide; gram negative bacteria; gram positive bacteria;
antibacterial; bacterial infection; bacterial viability; antibiotic.
                                                                                                                                                                                                                                     ;
0
                                                                                                                                                                                                                  Length 38;
                                                                                                                                                                                                                  Score 29, DB 3, Length 38;
Pred. No. 1.18+02;
1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Peitsch MC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Loferer H,
                                                                                                                                                                                                                                                                                                                   AAY55707 standard; protein; 39 AA.
                                                                                                                                                                                                                                                                                                                                                                       M. leprae ycfB peptide motif 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 3; Fig 2D; 56pp; English.
99US-0159631P.
99US-0159637P.
99US-0159648P.
99US-0160741P.
99US-0160767P.
99US-0160767P.
99US-0160761P.
99US-0160900P.
99US-0160900P.
99US-016194P.
99US-016195P.
99US-0161361P.
99US-0161361P.
99US-0161361P.
99US-0161361P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          98GB-00008350
                                                                                                                                                                                                                  74.4%;
ilarity 83.3%;
Conservative
                                                                                                                                                                                                                                                                                                                                                      07-FEB-2000 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Edgerton MD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GROUP LID
                                                                                                                                                                                                                                                                                                                                                                                                                   Mycobacterium leprae
                                                                                                                                                                                                           Query Match
Best Local Similarity
Lang 5, Conserve
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LEHEGI 14
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14-0CT-1999;
14-0CT-1999;
18-0CT-1999;
21-0CT-1999;
21-0CT-1999;
21-0CT-1999;
21-0CT-1999;
22-0CT-1999;
22-0CT-1999;
25-0CT-1999;
26-0CT-1999;
26-0CT-1999;
26-0CT-1999;
26-0CT-1999;
26-0CT-1999;
28-0CT-1999;
28-0CT-1999;
28-0CT-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Arigoni F,
                                                                                                                                                                                                                                                                                                                                      AAY55707;
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identified when position dependent scoring matrices according to tables 1 10-60; or (c) comprising any one of the sequences shown in AAVS5710-711. The yefs polypeptides and polynucleotides can be used in method to identify antagonists and antibacterial compounds. These antagonists and compounds can be used to treat bacterial infections. The polypeptides of the invention are essential proteins for bacterial viability, and represent new targets for antibictics. Sequences AAVS5647-709 represent differint motifs of the yefs family polypeptides of various bacterial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                e.9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New isolated nucleic acids from Streptococcus pneumoniae - useful, for identifying anti-bacterial(s) for treatment and prevention of meningitis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               coding region; ORF; open reading frame; antibacterial; infection; prevention; meningitis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Lonetto MA, Nicholas RO;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       74.4%; Score 29; DB 3; Length 39; 66.7%; Pred. No. 1.2e+02; ive 2; Mismatches 0; Indels
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9905-0138847P

9905-01318847P

9905-0139452P

9905-0139452P

9905-0139453P

9905-0139455P

9905-0139455P

9905-0139456P

9905-0139456P

9905-0139456P

9905-0139456P

9905-0139458P

9905-0139466P

9905-0139466P

9905-0139466P

9905-0139466P

9905-0139466P

9905-0139468P

9905-014083P

9905-014083P

9905-014083P

9905-014083P

9905-014431P

9905-014508P

9905-014508P
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                                                                                                                                                                                                                              Protein identification; signal transduction pathway; metabolic pathway; hybridisation assay; genetic mapping; gene expression control; promoter; termination sequence.
                                                 Gaps
                                                  .
0
                             Query Match 74.4%; Score 29; DB 2; Length 40; Best Local Similarity 57.1%; Pred. No. 1.2e+02; Matches 4; Conservative 3; Mismatches 0; Indels
                                                                                                                                                                                                             Arabidopsis thaliana protein fragment SEQ ID NO: 5314.
                                                                                                                                               AAG07962 standard; protein; 52 AA.
                                                                                                                                                                                                                                                                                                                                                           9905-0121825P

9905-0123180P

9905-0125788P

9905-0126264P

9905-0126244P

9905-0126244P

9905-0128244P

9905-0128244P

9905-0130644P

9905-0130644P

9905-0130649P

9905-0130649P

9905-0130649P

9905-0131848P

9905-0132488P

9905-0132488P

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9905-0132488P

9905-0132488P

9905-0134218P

9905-0136332P
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                                                                                                                                                                                       17-OCT-2000 (first entry)
                                                                                                                                                                                                                                                                            Arabidopsis thallana
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22 LEHEGVD 28
                                                                      1 LEHDGIN 7
          Sequence 40 AA;
                                                                                                                                                                                                                                                                                                                                          25-FEB-2000;
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                                                                                                                                                                                                                                                                                                                      06-SEP-2000
                                                                                                                                                                   AAG07962;
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                                                                                                                                   AAG07962
X S
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1 LEHDGI

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Protein identification; signal transduction pathway; metabolic pathway; hybridisation assay; genetic mapping; gene expression control; promoter; termination sequence.
                                                                                                  Arabidopsis thaliana protein fragment SEQ ID NO: 62503.
                                                     AAG49408 standard; protein; 53
                                                                                                                                                                                                              9905-0121825P.
9905-0123180P.
9905-0125788P.
9905-0126264P.
9905-0127462P.
9905-0127462P.
9905-0127462P.
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9905-013248P.
9905-013248P.
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9905-013248P.
9905-013248P.
9905-013248P.
9905-013421P.
9905-013422P.
9905-013424P.
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                                                                                    18-OCT-2000 (first entry)
                                                                                                                                                 Arabidopsis thaliana
         LEHEGI
                                                                                                                                                                                                                                              25-MAR 1999;
29-MAR 1999;
06-APR 1999;
06-APR 1999;
08-APR 1999;
19-APR 1999;
23-APR 1999;
23-APR 1999;
23-APR 1999;
23-APR 1999;
23-APR 1999;
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20-MAY-1999;
21-MAY-1999;
24-MAY-1999;
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01-JUN-1999;
03-JUN-1999;
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27-MAY-1999;
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                                                                     AAG49408;
                23
                                       RESULT 29
                                            AAG49408
ID AAG4
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9908-0147493P

9908-014735P

9908-01483119P

9908-01483119P

9908-0149368P

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9908-0149426P

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9908-0149426P

9908-0149426P

9908-0149426P

9908-0150884P

9908-0151080P

9908-0151080P

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9908-0151080P

9908-015108P

9908-015108P

9908-015108P

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9908-0159331P

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9908-016081P

9908-016081P

9908-016098P

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9908-016098P

9908-016098P

9908-016098P

9908-016098P

9908-016098P

9908-016195P
09-AUG-1999)
10-AUG-1999)
110-AUG-1999)
111-AUG-1999)
113-AUG-1999)
113-AUG-1999)
113-AUG-1999)
114-AUG-1999)
115-AUG-1999)
115-AUG-1999)
116-AUG-1999)
117-AUG-1999)
118-AUG-1999)
119-AUG-1999)
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Best Local S:
Matches 5
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9900S-01394554P.
9900S-0139455P.
9900S-0139455P.
9900S-0139457P.
9900S-0139460P.
9900S-0139460P.
9900S-0139460P.
9900S-0139460P.
9900S-0139460P.
9900S-014080SP.
9900S-014080SP.
9900S-014420SP.
9900S-014420SP.
9900S-014420SP.
9900S-014420SP.
9900S-0144333P.
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9900S-0144333P.
9900S-0144334P.
9900S-0145204P.
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9900S-0145204P.
9900S-0145303P.
9900S-014433P.
9900S-0144333P.
9900S-0144333P.
9900S-0144333P.
 18 - JUN - 1999 | 18 - JUN - 1
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Gaps ô Length Score 29; DB 3; Lei Pred. No. 1.6e+02; 1; Mismatches 0; 99US-0149368P.
99US-0149175P.
99US-0149175P.
99US-0149723P.
99US-0149723P.
99US-0149723P.
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99US-015933P.
99US-01698P.
99US-01609B.P.
99US-01609B.P.
99US-01609B.P.
99US-01609B.P.
99US-01609B.P.
99US-01609B.P.
99US-01609B.P.
99US-016136P.
99US-016136P. h 74.4%; Similarity 83.3%; 5; Conservative 9 14 LEHDGI ||:|| LEHEGI 16-AUG-1999; 17-AUG-1999; 20-AUG-1999; 20-AUG-1999; 20-AUG-1999; 21-AUG-1999; 22-AUG-1999; 22-AUG-1999; 23-AUG-1999; 24-AUG-1999; 25-AUG-1999; 26-AUG-1999; 27-AUG-1999; 28-AUG-1999; Query Match Best Local S Matches 5 8 8

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RESULT 30 AAR37963

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ligand-binding domains of fibroblast growth factor receptor - used in chimeric proteins, inhibit proliferation of tumour cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human, immune, haematopoietic, immune/haematopoietic antigen, cancer,
cytostatic, gene therapy, vaccine, metastasis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                       Polymerase chain reaction; immunoglobulin-like domain; tumour;
ligand specificity region; LSR; fibroblast growth factor receptor;
variable region; keratinocyte growth factor receptor; chimera.
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                                                                                                                                                                                                                          1..52
/noce= "mouse KGFR Ig-like domain 3 V-region"
53..64
/note= "FGFR2 framework"
                                                                                              KGFR Ig-like domain 3 V-region inserted into FGFR2 framework.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match

74.4%; Score 29; DB 2; Length 64;
Best Local Similarity 71.4%; Pred. No. 2e+02;
Matches 5; Conservative 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human immune/haematopoietic antigen SEQ ID NO:11982.
                                                                                                                                                                                                            Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAM84389 standard; protein; 66 AA.
AAR37963 standard; protein; 64 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 1; Fig 3; 20pp; English.
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                                                                                                                                                                                                                                                                                                                                                    92EP-00120425.
                                                                                                                                                                                                                                                                                                                                                                             91IL-00100219.
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                                                     (revised)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1993-184106/23.
N-PSDB; AAQ43163.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LKHSGIN 7
                                                                                                                                                                                                                                                                                                                                                                                                                                     Yayon A, Givol D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 64 AA;
                                                                                                                                                                                                                                                                                                                                                   30-NOV-1992;
                                                                                                                                                                                 wus musculus
                                                                                                                                                                                                                                                                                                                                                                             02-DEC-1991;
                                                    25-MAR-2003
07-OCT-1993
                                                                                                                                                                                                                                                                                             EP545343-A1
                                                                                                                                                                                                                                                                                                                        09-JUN-1993
                          AAR37963;
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                                                                                                                                                                                                            Key
Region
                                                                                                                                                                                                                                                      Region
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NX MOZO0157182-A2.

PN WOZO0157182-A2.

PN WOZO0157182-A2.

PN WOZO0157182-A2.

XX WOZO0157182-A2.

PN A17-2000; 2000US-0179065P.

PR 17-MAR-2000; 2000US-0184664P.

PR 17-MAR-2000; 2000US-018655P.

PR 17-MAR-2000; 2000US-018655P.

PR 17-MAR-2000; 2000US-018655P.

PR 17-MAR-2000; 2000US-018664P.

PR 18-MAY-2000; 2000US-018665P.

PR 19-MAY-2000; 2000US-018664P.

PR 19-MAY-2000; 2000US-020516F.

PR 19-MAY-2000; 2000US-021513F.

PR 19-MAY-2000; 2000US-021513F.

PR 11-UUL-2000; 2000US-021513F.

PR 11-UUL-2000; 2000US-021513F.

PR 11-UUL-2000; 2000US-021513F.

PR 11-UUL-2000; 2000US-021518F.

PR 11-UUL-2000; 2000US-021518F.

PR 14-AUG-2000; 2000US-021518F.

PR 14-AUG-2000; 2000US-02256F.

PR 14-AUG-
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Nucleic acids encoding human immune/hematopoietic antigen polypeptides, useful for preventing, diagnosing and/or treating cancers and metastasis

Ruben SM,

Barash SC,

Rosen CA,

WPI; 2001-483426/52. N-PSDB; AAK57170.

Claim 11; SEQ ID NO 11982; 3071pp + Sequence Listing; English.

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27-SEP-2000; 2000US-0235834P.
29-SEP-2000; 2000US-0235834P.
29-SEP-2000; 2000US-0235834P.
29-SEP-2000; 2000US-0235834P.
29-SEP-2000; 2000US-0236364P.
29-SEP-2000; 2000US-0236364P.
29-SEP-2000; 2000US-0236364P.
29-SEP-2000; 2000US-0236364P.
29-SEP-2000; 2000US-0236364P.
29-SEP-2000; 2000US-0236369P.
29-SEP-2000; 2000US-0236369P.
20-OCT-2000; 2000US-0236309P.
20-OCT-2000; 2000US-0236309P.
20-OCT-2000; 2000US-0236309P.
20-OCT-2000; 2000US-0236309P.
20-OCT-2000; 2000US-023639P.
20-OCT-2000; 2000US-023647P.
20-OCT-2000; 2000US-024647P.
20-OCT-2000; 2000US-024661P.
20-OCT-2000; 2000US-024652P.
20-OCT-2000; 2000US-024652P.
20-OCT-2000; 2000US-024652P.
20-OCT-2000; 2000US-024652P.
20-OCT-2000; 2000US-024652P.
20-OCT-2000; 2000US-024652P.
20-OCT-2000; 2000US-024921P.
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(HUMA-) HUMAN GENOME SCI INC

AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (1)
amino acid sequences given in AAM82170 to AAM91921. (1) have cytostatic
activity, and can be used in gene therapy and vaccine production. (1)
cactivity, and can be used in the prevention, diagnosis and
proteins and polyvaclectides may be used in the prevention, diagnosis and
creatment of diseases associated with inappropriate (1) expression. For
example, they may be used to treat disorders associated with decreased
expression by rectifying mutations or deletions in a patient's genome
that affect the activity of (1) by expressing inactive proteins or to
supplement the patients own production of (1). Additionally, (1)
polynucleotides may be used to produce the secreted (1), by inserting the
nucleic acids into a host cell and culturing the cell to express the
concleic acids into a host cell and culturing the cell to express the
diagnose and treat immune/haematopoietic-related diseases, especially
cancers and cancer metastases of haematopoietic-derived cells. AAK64703
concers more thusen immune/haematopoietic antigen genomic
sequences from the present invantion. AAK5492 to AAK5450 and AAM82169
crepresent sequences used in the exemplification of the present invention ö Protein identification; signal transduction pathway; metabolic pathway; hybridisation assay; genetic mapping; gene expression control; promoter; termination sequence. Gaps . 0 Query Match 74.4%; Score 29; DB 4; Length 66; Best Local Similarity 100.0%; Pred. No. 2.1e+02; Matches 5; Conservative 0; Mismatches 0; Indels Arabidopsis thaliana protein fragment SEQ ID NO: 62502. AAG49407 standard; protein; 67 AA. 990S-0121825P. 99US-0123180P. 99US-0125788P. 99US-0126264P. 99US-0126785P. 99US-0128234P. 99US-0128234P. 99US-0128234P. 2000EP-00301439 18-OCT-2000 (first entry) Arabidopsis thaliana se LEHDG 60 1 LEHDG 5 Sequence 66 AA; 25-FBB-1999; 05-MAR-1999; 23-MAR-1999; 23-MAR-1999; 25-MAR-1999; 01-APR-1999; 06-APR-1999; 16-APR-1999; 16-APR-1999; 25-FEB-2000; EP1033405-A2 06-SEP-2000 AAG49407; RESULT 32 AAG49407 셤 à

9US-0130540 9US-0130540 9US-0131048 9US-0131048 9US-0132485 9US-0132487 9US-0132487 9US-0132487 9US-0132487 9US-0132487 9US-0132487 9US-0132487 9US-0132487	99US-0134768 99US-0134768 99US-01355353 99US-0135629 99US-0135629 99US-0136629 99US-0137502 99US-0137502 99US-0137502 99US-0137502 99US-0137502 99US-0137503 99US-0139453 99US-0139453 99US-0139453 99US-0139453 99US-0139453 99US-0139453 99US-0139453	905.0139763 905.0139810 905.0139810 905.0140835 905.0140635 905.0140635 905.014082 905.0141287 905.014282 905.014282 905.014282 905.0144333 905.0144333 905.0144333 905.0144333 905.0144333 905.0144333 905.0144333 905.0144333
APR-1999, APR-1999, APR-1999, APR-1999, MAY-1999, MAY-1999, MAY-1999, MAY-1999, MAY-1999, MAY-1999, MAY-1999, MAY-1999, MAY-1999, MAY-1999,	MAY-1999; MAY-19	CON-1999 CON
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PR 20-JUL-1999; 99US-0144652P.
PR 20-UUL-1999; 99US-0144662P.
PR 21-UUL-1999; 99US-0144644P.
PR 21-UUL-1999; 99US-014508P.
PR 22-UUL-1999; 99US-014508P.
PR 22-UUL-1999; 99US-014508P.
PR 22-UUL-1999; 99US-014508P.
PR 23-JUL-1999; 99US-015508P.
PR

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Mon Jun 21 15:44:53 2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 67;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAG34647 standard; protein; 74 AA
99US-0159331P

99US-0159637P

99US-0160741P

99US-0160767P

99US-0160768P

99US-0160768P

99US-0160768P

99US-0160980P

99US-0160981P

99US-0160981P

99US-016198P

99US-016198P

99US-0161405P

99US-016135P

99US-0161361P

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99US-0161920P
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99US-0123180P.
99US-012558P.
99US-0126264P.
99US-0126264P.
99US-012624P.
99US-012624P.
99US-0128234P.
99US-0128234P.
99US-0130845P.
99US-0130849P.
99US-0130849P.
99US-0130848P.
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LEHEGI 28
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14-0CT-1999

14-0CT-1999

18-0CT-1999

21-0CT-1999

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22-0CT-1999

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05-MAR-1999;
23-MAR-1999;
25-MAR-1999;
25-MAR-1999;
01-APR-1999;
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06-APR-1999;
16-APR-1999;
116-APR-1999;
23-APR-1999;
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PR 05-MAY-1999; 99US-0132486P.
PR 06-MAY-1999; 99US-0132486P.
PR 10-MAY-1999; 99US-0132466P.
PR 11-MAY-1999; 99US-0132466P.
PR 11-MAY-1999; 99US-0134218P.
PR 11-MAY-1999; 99US-0134218P.
PR 11-MAY-1999; 99US-0134218P.
PR 12-MAY-1999; 99US-0134218P.
PR 21-MAY-1999; 99US-0134218P.
PR 22-MAY-1999; 99US-0134218P.
PR 10-UN-1999; 99US-013452P.
PR 10-UN-1999; 99US-013452P.
PR 11-UN-1999; 99US-013452P.
PR 11-UN-1999; 99US-013454P.
PR 11-UN-1999; 99US-013454P.
PR 11-UN-1999; 99US-013454P.
PR 11-UN-1999; 99US-013454P.
PR 11-UN-1999; 99US-0133454P.
PR 11-UN-1999; 99US-0133454P.
PR 12-UN-1999; 99US-0133454P.
PR 12-UN-1999; 99US-0133454P.
PR 13-UN-1999; 99US-0140334P.
PR 13-UN-1999; 99US-0140334P.
PR 13-UN-1999; 99US-0142334P.
PR 13-UN-1999; 99US-0142334P.
PR 13-UN-1999; 99US-0142334P.
PR 13-UN-1999; 99US-0143334P.
PR 13-UN-1999; 99US-0144333P.
PR 13-UN-1999; 99US-014433P.
PR
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PR 22-UUL-1999; 99US-0145087P.
PR 23-UUL-1999; 99US-0145082P.
PR 23-UUL-1999; 99US-014518P.
PR 25-UUL-1999; 99US-014518P.
PR 25-UUL-1999; 99US-014518P.
PR 25-UUL-1999; 99US-0145218P.
PR 25-UUL-1999; 99US-0145918P.
PR 25-UUL-1999; 99US-0145918P.
PR 02-AUG-1999; 99US-0145918P.
PR 03-AUG-1999; 99US-0145918P.
PR 03-AUG-1999; 99US-0145918P.
PR 03-AUG-1999; 99US-0144918P.
PR 03-AUG-1999; 99US-0144918P.
PR 03-AUG-1999; 99US-0144918P.
PR 13-AUG-1999; 99US-014931P.
PR 23-AUG-1999; 99US-015018P.
PR 24-AUG-1999; 99US-
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                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New protein from Neisseria gonorrheae, useful for the manufacture of medicament for treating or preventing N. gonorrheae infection.
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                                                                                                                                                                                            Length 74;
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Pred. No. 2.6e+02;
                                                                                                                                                                                            Score 29; DB 3; 1
Pred. No. 2.4e+02;
1; Mismatches 0
                                                                                                                                                                                                                                                                                                                                                                                                                    Antibacterial; infection; vaccine; gene therapy
                                                                                                                                                                                                                                                                                                                                                                                             N. gonorrhoeae amino acid sequence SEQ ID 8448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Masignani V, Monaci
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure, Page 803; 815pp; English.
                                                                                                                                                                                                                                                                                                                           ABP80959 standard; protein; 82 AA.
                                                                                                                                                                                                                  1,
         9905-0160814P
9905-0160815P
9905-016081P
9905-0160981P
9905-0160981P
9905-0161908P
9905-0161405P
9905-0161405P
9905-0161360P
9905-0161360P
9905-0161361P
9905-0161361P
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99US-0160770P.
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Similarity 83.3%;
5; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                             Neisseria gonorrhoeae
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N-PSDB; ABZ41929.
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Best Local Similarity
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         21-0(T-1999)
22-0(T-1999)
22-0(T-1999)
22-0(T-1999)
25-0(T-1999)
26-0(T-1999)
26-0(T-1999)
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Best Local S
Matches 5
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Cytostatic, Cardiant, Anti-allergic, Immunosuppressive, Vulnerary; Antiinflammatory; gene therapy; human; ORFX; atherogenic; platelet; human umbilical vein endothelial cell; HUVEC, atherosclerotic plaque; cancer; cardiovascular disease; allergy; autoimmune disease; wound healing; blood coagulation disorder; inflammatory disorder.

US2002082206-A1.

27-JUN-2002.

Homo sapiens.

ABP64017 standard; protein; 84

(first entry)

04-NOV-2002 ABP64017;

Human ORF387

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RESULT 36
                                   ABP64017
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New isolated nucleic acid derived from Enterococcus faecium encoding Enterococcus faecium polypeptide useful for detection, prevention and treatment of a pathological condition resulting from a bacterial
Gaps
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Indels
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Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         one if the disclosed E. faecium proteins.
                                                                                                                                                                                  faecium protein sequence SEQ ID 4957.
                                                                                                           ADC95330 standard; protein; 83 AA.
                                                                                                                                                                                                                                                                                                                                                                                    (GENO-) GENOME THERAPEUTICS CORP.
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98US-0085598P.
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                                                                                                                                                            (first entry)
4; Conservative
                                                                                                                                                                                                                                                Interococcus faecium.
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Best Local Similarity
                                      ||:|:|
64 EHNGVN 69
                       BHDGIN 7
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The present invention relates to novel human ORFX polypeptides and their coding sequences (ABP6361-ABP64681 and ABQ98194-ABQ99267). The sequences were discovered in human atherogenic cells, in particular in platelets and human umbilical vein endothelial cells (HUVEC) and are expressed in many other tissues as well. Atherogenic cells are cells which have the potential to develop atherosclerotic plaques. The ORFX polypeptides and nucleic acids are useful for treating or preventing a pathological condition associated with an ORFX-associated disorder, e.g. cancer, cardiovascular disease, allergy, autoimmune disease, wound healing, blood coagulation disorders or inflammatory disorders, Note: The sequence data for this patent did not form part of the printed specification, but was sequate in electronic format directly from the USPTO web site at sequance.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New polypeptide designated ORFX are present in human atherogenic cells and are useful to prevent and treat ORFX-associated disorders including cancer, allergy, wound healing or autoimmune, cardiovascular or inflammatory disease.
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100.0%; Pred. No. 2.7e+02;
iive 0; Mismatches 0;
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                                                             30-MAY-2000; 2000US-0208427P.
30-MAY-2001; 2001US-00867550.
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Matches 5; Conservative
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                                                                                                                     (LEAC/) LEACH M D.
(MEIR/) MEHRABAN F.
(CONL) CONLEY P B.
(TOPP/) TOPPER J N.
(LAWD/) LAW D.
                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2002-626554/67.
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29 LEHDG 33

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Gaps

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5; Conservative

Matches

62

57 LKHDGI

1 LEHDGI 6

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RESULT 37 AAG34646

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Protein identification; signal transduction pathway; metabolic pathway; hybridisation assay; genetic mapping; gene expression control; promoter; termination sequence.
                                                                                                 Arabidopsis thaliana protein fragment SEQ ID NO: 42191
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 AAG34646 standard; protein; 87
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                                                                    (first entry)
                                                                                                                                                                                                        Arabidopsis thaliana
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PR 18-UN-1999; 99US-01134462P.
PR 18-UN-1999; 99US-01139462P.
PR 18-UN-1999; 99US-01139760P.
PR 22-UN-1999; 99US-0139763P.
PR 23-UN-1999; 99US-0140324P.
PR 23-UN-1999; 99US-0141842P.
PR 13-UN-1999; 99US-014205P.
PR 23-UN-1999; 99US-0144332P.
PR 23-UN-1999; 99US-0144334P.
PR 23-UN-1999; 99US-0
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The invention relates to novel human carcinoembryonic antigen (CEA) polypeptides and polymucleotides encoding such polypeptides. CEA genes are useful as diagnostic and propostic markers of colon, stomach and breast cancers. Polypeptides of the invention can be used to diagnose, treat and/or prevent cell adhesion-mediated disease (e.g. cancers, solld tumours, tumour metastasis or benign tumnours) and to mediate cell-cell or cell-matrix adhesion in mammalian tissues. The invention is useful in gene therapy. The present sequence is human CEA exon encoded peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SAPHO syndrome; synovitis; acne; pustulosis; hypertosis; osteomyelitis; uve;tis; endophthalmitis; bone; joint; central nervous system; ELISA; inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay; dermatological; osteopathic; neuroprotectant.
           Human, carcinoembryonic antigen, CEA, cell adhesion-mediated disease;
prognosis, cancer, tumour, gene therapy; exon.
                                                                                                                                                                                                                                                                               New carcinoembryonic antigen and polynucleotides encoding them, use for treating and/or preventing cell adhesion-mediated disease (e.g. cancers, solid tumors, tumor metastasis or benign tumors) symptoms.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 74.4%; Score 29; DB 6; Length 92; Best Local Similarity 100.0%; Pred. No. 3e+02; Matches 5; Conservative 0; Mismatches 0; Indels
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                                                                                                                                                                                                                                                                                                                                Claim 17; Page 127; 143pp; English.
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                                                                                                                                              07-MAY-2001; 2001US-0289179F.
29-AUG-2001; 2001US-0315736F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20-APR-2001; 2001WO-US012865.
                                                                                                                        07-MAY-2002; 2002WO-US014457.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Propionibacterium acnes
                                                                                                                                                                                   (ALPH-) ALPHAGENE INC
                                                                                                                                                                                                                                            WPI; 2003-111965/10.
N-PSDB; AAD50563.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             65 EHDGI 69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2 EHDGI 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 92 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO200181581-A2.
                                                                         WO200290508-A2
                                                  Homo sapiens.
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                                                                                               14-NOV-2002
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                                                                                                                                                                                                         Stark KA,
Saini KS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAU52002;
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Pred. No. 2.8e+02;
1; Mismatches 0; Indels
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9905-01499300

9905-01505668

9905-01510668

9905-01510668

9905-01513030

9905-01513030

9905-01513030

9905-015330

9905-0154038

9905-0154038

9905-0154039

9905-0154039

9905-0154039

9905-015530

9905-0156586

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ilarity 83.3%;
Conservative
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LEHEGI 21
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22.0CT-1999
                        26-AUG-1999;
27-AUG-1999;
27-AUG-1999;
27-AUG-1999;
31-AUG-1999;
31-AUG-1999;
01-SEP-1999;
                                                                                                         07.5EP-1999
13.5EP-1999
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16.5EP-1999
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23.5EP-1999
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24.5EP-1999
25.5EP-1999
25.5EP-1999
26.5EP-1999
26.5EP-1999
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05-0CT-1999;
06-0CT-1999;
07-0CT-1999;
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Best Local S:
Matches 5
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useful

Mitcham JL, Wang SS, Bhatia A; Jen S, Carter D;

Sequences AAU39105-AAU68017 represent Propionibacterium acnes immunogenic polypeptides. The proteins and their associated DNA sequences are used in the treatment, prevention and diagnosis of medical conditions caused by the acnes. The disorders include SAPHO syndrome (synovitis, acne, pustulosis, hypertosis and osteomyelitis), uveitis and endophthalmitis. P. acnes is also involved in infections of bone, joints and the central nervous system, however it is particularly involved in the inflammatory lesions associated with acne vulgaris. A method for detecting the presence or absence of P. acnes in a patient comprises contacting a sample with a binding agent that binds to the production of the invention and determining the amount of bound protein in the sample. The copypeptides may be used as antigens in the production of antibodies and downregulate expression and activity of P. acnes polypeptides and committed in the case in the production of antibodies and downregulate expression and activity of P. acnes polypeptides and diagnostic agents for determining P. acnes presence, for example, by enzyme linked immunosorbent assay (EuSA). Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at the production of the printed for the prevention of the printed from part of Propionibacterium acnes polypeptides and nucleic acids useful for vaccinating against and diagnosing infections, especially useful for Propionibacterium acnes predicted ORF-encoded polypeptide #13197. Acne vulgaris; antiseborrhoeic; dermatological; antibacterial; immunostimulant; immune response; vaccine. Example 1; SEQ ID NO 13197; 1069pp; English ABM48521 standard; protein; 103 AA. 02-JUN-2000; 2000US-0208841P. 07-JUL-2000; 2000US-0216747P. Skeiky YAW, Persing DH, M L'maisonneuve J, Zhang Y, 20-OCT-2003 (first entry) Query Match
Best Local Similarity 80.0
Matches 4; Conservative Propionibacterium acnes treating acne vulgaris. WPI; 2001-616774/71. N-PSDB; AAS59553. (CORI-) CORIXA CORP 3 HDGIN 7 2 HDGVN 6 Sequence 103 AA; 402003033515-A1 24-APR-2003 ABM48521; RESULT 40 ð

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conding a Propionibacterium acnes purposedicides (Abro+443-Acre4433)

encoding a Propionibacterium acnes polypeptides. The invention also relates to polypeptides encoded by the polymucleotides (AbM35624-ABM64536) and to immunogenic fragments of P. acnes polypeptides. The invention and to comparase expression vectors and host cells comprising a additionally encompasses expression vectors and host cells comprising a polypeptide of the invention; a method for stimulating an immune response specific for a P. acnes polypeptide and an isolated rell population comprising T cells prepared via this method; a vaccine composition (comprising P cells prepared consistence) to the invention; and an isolated T cell population comprising P cells prepared via this method; a vaccine composition (comprising P cells prepared consistence) to comprising the presence of polymerleotides, antibodies, fusion proceins, T cell populations of proteins, T cell populations or absence or absence of P. acnes in a consistent, and a method for inhibiting the development of P. acnes in a partient. The P. acnes polymerleotides, polymerleotides, antibodies, fusion proteins, T cell populations or antigen-presenting cells that express the colympeptides are useful for adagnosing, preventing or treating acne vulgaris, or for stimulations or antigen-presenting cells that express the colympeptides and appropriate and appringence of an also be used as probes or primers for mucleic acid hybridistation. The vaccine composition is useful for the estimulation of an immune response against P. acnes, or for treating acne, and the kit is useful for performing a diagnostic assay. The present confidence represents a polypeptide predicted to be encoded by an ORF (open reading frame) contained within the P. acnes polymucleotides of the printed specification, but was obtained in electronic format directly frame) in the firm of the print as obtained within the P. acnes polymoredenced and directly of the printed specification, but were not only an order of the printed 
                                                                                                                                                                                     New Propionibacterium acnes polypeptides and polynucleotides encoding the polypeptide, useful for diagnosing, preventing or treating acne vulgaris, or for stimulating an immune response specific for a P. acnes protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SAPHO syndrome; synovitis; acne; pustulosis; hypertosis; osteomyelitis; uveitis; endophthalmitis; bone; joint; central nervous system; ELISA; inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay; dermatological; osteopathic; neuroprotectant.
                                                                                                                                                                                                                                                                                                                                       The invention relates to an isolated polynucleotide (ACF64435-ACF64733)
                  Maisonneuve JL;
Jones R, Carter D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              from WIPO at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Propionibacterium acnes immunogenic protein #18764.
                    Bhatia A,
Benson DR,
                                                                                                                                                                                                                                                                                     Example 1; SEQ ID NO 13197; 1481pp; English.
                  JL, Skeiky YAW, Persing DH,
Wang S, Jen S, Lodes MJ,
Vallieve-Douglass J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAU57868 standard; protein; 106 AA.
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                                                                                                                    WPI; 2003-381789/36
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Best Local Similarity
Matches 4; Conserv
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                                                                                                                                              N-PSDB; ACF64482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 103 AA;
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                                            Zhang Y,
Barth B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAU57868;
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AAU57868
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Gaps

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74.4%; Score 29; DB 4; Length 103; 80.0%; Pred. No. 3.4e+02; ive 1; Mismatches 0; Indels

11-OCT-2002; 2002WO-US032727 15-OCT-2001; 2001US-00978825

(CORI-) CORIXA CORP

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31-MAR-2000; 2000US-00540217.
23-AUG-2000; 2000US-00649167.
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(HYSE-) HYSEQ INC

Tang YT;

Liu C,

Drmanac RT,

N-PSDB; AAS79957

Mitcham JL, Wang SS, Bhatia A; Jen S, Carter D; 21-APR-2000; 2000US-0199047P. 02-JUN-2000; 2000US-0208841P. 07-JUL-2000; 2000US-0216747P. 20-APR-2001; 2001WO-US012865. Persing DH, M: e J, Zhang Y, (CORI-) CORIXA CORP. WPI; 2001-616774/71 L'maisonneuve J, N-PSDB; AAS59587 Skeiky YAW,

Propionibacterium acnes polypeptides and nucleic acids useful for vaccinating against and diagnosing infections, especially useful for treating acne vulgaris.

Example 1; SEQ ID NO 19063; 1069pp; English.

Sequences AAU39105-AAU68017 represent Propionibacterium acnes immunogenic polypeptides. The proteins and their associated DNA sequences are used in the treatment, prevention and diagnosis of medical conditions caused by P. acnes. The disorders include SAPHO syndrome (synovitis, acne, pustulosis, bypertosis and osteony-litis), uvetis and endophthalmitis. The construction in infections of bone, joints and the central nervous system, however it is particularly involved in the inflammatory lesions associated with acne vulgaria. A method for detecting the presence or absence of P. acnes in a patient comprises contacting a sample with a binding agent that binds to the proteins of the invention and determining the amount of bound protein in the sample. The polypeptides may be used as antigens in the production of antibodies contacting the supersision and activity of P. acnes polypeptides and therefore treat P. acnes proteins. These antibodies can be used to downregulate expression and activity of P. acnes polypeptides and therefore treat P. acnes infections. The antibodies may also be used as diagnostic agents for determining P. acnes presence, for example, by enzyme linked immunosorbent assay (ELISA). Note: The sequence data for this patent did not form part of the printed specification, but was ftp.wipo.int/pub/published_pct_sequences

Sequence 106 AA;

Gaps .. 0 74.4%; Score 29; DB 4; Length 106; 80.0%; Pred. No. 3.5e+02; ive 1; Mismatches 0; Indels 4; Conservative Query Match Best Local Similarity

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ABG15770 standard; protein; 106 AA. ABG15770; RESULT 42 ABG15770

(first entry) 18-FEB-2002

Novel human diagnostic protein #15761.

Human, chromosome mapping; gene mapping; gene therapy; forensic; food supplement; medical imaging; diagnostic; genetic disorder.

Homo sapiens

11-OCT-2001.

30-MAR-2001; 2001WO-US008631.

The invention relates to isolated polymucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain recardion (PGN) primers, oligomers, and for chomosome and gene mapping, and in recombinant production of (II). The polymuclectides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal cativity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in issue, as molecular weight markers and as a food supplement. (II) and its binding pattners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders of sites expressing (II). (I) and (II) are useful for treating disorders of sites expressing (II). (I) and (II) are useful for treating disorders of sites expressing (II). (I) and pattners are useful for treating disorders polypeptide and polymuclectide sequences have applications in the printed sequences has biodiversity responsible for genetic disorders or other traits to assess blodiversity responsible for genetic disorders or other traits to assess blodiversity and to produce other types of data and products dependent on DNA and and to produce sequences. ABG00010-ABG30377 represent novel human diagnostic amino acid sequences. ABG00010-ABG30377 represent novel human diagnostic amino acid sequences of the invention. Note: The sequence data for this electronic format directly from WIND at the printed specification, but was obtained in electronic format directly from WIND at the printed specification of the printed specification of the printed specification. New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity. Claim 20, SEQ ID NO 46129, 103pp, English.

Sequence 106 AA;

Gaps ó 74.4%; Score 29; DB 4; Length 106; 100.0%; Pred. No. 3.5e+02; ative 0; Mismatches 0; Indels Query Match
Best Local Similarity 100.
Matches 5; Conservative

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RESULT 43

ABM54387 standard; protein; 106 AA. ABM54387

20-OCT-2003

Propionibacterium acnes predicted ORF-encoded polypeptide #19063.

Acne vulgaris; antiseborrhoeic; dermatological; antibacterial; immunostimulant; immune response; vaccine.

Propionibacterium acnes

WO2003033515-A1

11-OCT-2002; 2002WO-US032727

15-OCT-2001; 2001US-00978825

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The invention relates to an isolated polynuclectide (ACF64435-ACF64733)

cucoding a Propionibacterium acnes protein. The invention also relates to encoded by the polynucleotides. The invention additionally encompasses expression vectors and host cells comprising a additionally encompasses expression vectors and host cells comprising a colynpetide of the invention, antibodies against polypetides of the invention, and an isolated T cell population comprising T cells prepared to chypetide of the invention; and an isolated T cell population comprising T cells prepared via this method; a vaccine composition (comprising T cell populations, or polymetries, and an isolated T cell population comprising T cell populations, or antigen-presenting cells that express the polymetries of P acnes in a patient; and a method for inhibiting the development of P. acnes in a patient; and a method for inhibiting the development of P. acnes in a confidence of P acnes in a patient; and a method for inhibiting the development of P. acnes in a patient; and a method for inhibiting the development of P. acnes in a colymetries or detecting or detecting or detecting or detecting or detecting or detecting or an inhibiting the development of P. acnes in a proteins. T cell populations or antigen-presenting cells that express the polymetries, or for stimulating an immune response specific for a P. acnes or protein. The polymuclectides can also be used as probes or priners for uncleic acid hybridisation. The vaccine composition is useful for the stimulating an immune response against P. acnes, or for treating account and the kit is useful for performing a diagnostic assay. The present cand the kit is useful for performing a diagnostic assay. The present cand the kit is useful for performing a diagnostic assay. The present cand not an invention. Note: The sequence data for this patent did not form part of invention. Note: The sequence data for this patent did not form a directly but was obtained in electronic format directly.
                                                                                                                                                                                                                                                                                         New Propionibacterium acnes polypeptides and polynucleotides encoding the polypeptide, useful for diagnosing, preventing or treating acne vulgaris, or for stimulating an immune response specific for a P. acnes protein.
                                                                               Mitcham JL, Skeiky YAW, Persing DH, Bhatia A,
Zhang Y, Wang S, Jen S, Lodes MJ, Benson DR,
Barth B, Vallieve-Douglass J;
                                                                                                                                                                                                                                                                                                                                                                                                                  Example 1; SEQ ID NO 19063; 1481pp; English
                                                                                                                                                                                                      WPI; 2003-381789/36.
N-PSDB; ACF64516.
                            (CORI-) CORIXA CORP
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Sequence 106 AA;

; 0 74.4%; Score 29; DB 6; Length 106; 80.0%; Pred. No. 3.5e+02; ive 1; Mismatches 0; Indels Local Similarity 80.0 les 4; Conservative Best Loca Matches

3 HDGIN 7

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|||:| 6 HDGVN 10

Novel human diagnostic protein #27657. ABG27666 standard; protein; 107 AA. ABG27666 RESULT 44 ABG27666

18-FEB-2002 (first entry)

Human, chromosome mapping; gene mapping; gene therapy, forensic; food supplement; medical imaging; diagnostic; genetic disorder.

Homo sapiens

W0200175067-A2

11-OCT-2001

30-MAR-2001; 2001WO-US008631

31-MAR-2000; 2000US-00540217. 23-AUG-2000; 2000US-00649167.

Maisonneuve JL; Jones R, Carter D;

(HYSE-) HYSEQ INC.

Tang YT Drmanac RT, Liu C,

WPI; 2001-639362/73

N-PSDB; AAS91853

New isolated polynuclectide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity.

Claim 20; SEQ ID NO 58025; 103pp; English.

The invention relates to isolated polymucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PKT) primers, oligomers, and for chromosome and gene mapping, and in diagnostics as expressed sequence tags for identifying expressed in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal cativity of (II) or to treat disease states involving (II). (II) is useful in some therapy techniques to restore normal suffice generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food of supplement. (II) and its binding partners are useful for treating disorders of sites expressing (II). (I) and (II) are useful for treating disorders of sites expression or biological activity. The polypeptide and polymucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations in capposite for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. ABGOOIO-ABGO30377 represent novel human diagnostic maino acid sequences of the invention. Note: The sequence data for this electronic format directly from MPO at the printed specification, but was obtained in electronic format directly from MPO at the printed specification, but was obtained in electronic format directly from MPO at

Sequence 107 AA;

. 0 Query Match 74.4%; Score 29; DB 4; Length 107; Best Local Similarity 100.0%; Pred. No. 3.5e+02; Matches 5; Conservative 0; Mismatches 0; Indels

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RESULT 45 ABG93329

ABG93329 standard; protein; 113 AA. 21-NOV-2002 (first entry) ABG93329; BXXXXXXXXXXXXXXXXXXXXX

C. albicans BAX-associated protein fragment SEQ ID 616.

Bax; Bax-resistance; cytostatic; fungicide; immunosuppressive; virucide; vasotropic; vaccine; gene therapy; proliferative disorder; cancer; apoptosis; fungal; yeast; infection; autoimmune disease; ischaemia; neurodegeneration; cell death.

Candida albicans

WO200264766-A2.

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This invention describes a novel mucleic acid representing a synthetic Bax gene. The Bax gene of the invention is useful for identifying Bax-cesistant yeast or fund; identifying, or obtaining and identifying Bax-Candida spp. sequences that are differentially expressed in a pathway candida spp. sequences that are differentially expressed in a pathway eventually leading to programmed cell death or identifying inhibitors or inhibitors equences of Bax-induced cell death. The products of the invention have cytostatic, fungicide; immunosuppressive, virucide and vasotropic activity and can be used in vaccines or for gene therapy. The insolated nucleid acids, polypeptides, pharmaceutical compositions, antisense molecules and antibodies are useful as medicaments or in preparing a medicament for treating, preventing and/or alleviating or prolypeptides, or the genetically modified organism are useful for as cancer, or for preventing apoptoeis in certain disease. The compounds or preparing a medicament for modifying the endogenic flora of humans and other mammals. The vaccine is useful for immunishing against yeast or fungal infections. Apoptosis-related diseases include autoimmune disease, ischaemla diseases related with viral infections or neurodegenerations. This sequence represents a polypeptide associated with the Bax gene described in the disclosure of the invention
                                                                                                                                                                                                                                                                                                                               New isolated nucleic acid representing a synthetic BAX-gene, useful as medicament for treating, preventing and/or alleviating yeast or fungal infections or proliferative disorders, or for preventing apoptosis in certain diseases.
                                                                                                                                                                                                                   Reekmans RJ;
                                                                                                                                                                                                                Contreras RH, Eberhardt I, Luyten WHML,
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 36; Fig 2; 344pp; English.
                                                                  22-DEC-2000; 2000EP-00870318.
04-JAN-2001; 2001EP-00870002.
09-JAN-2001; 2001EP-00870003.
                       21-DEC-2001; 2001WO-EP015398.
                                                                                                                                                               (JANC ) JANSSEN PHARM NV
                                                                                                                                                                                                                                                               WPI; 2002-667002/71.
N-PSDB; ABQ76595.
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Sequence 113 AA;

Gaps .. 0 74.4%; Score 29; DB 5; Length 113; 66.7%; Pred. No. 3.7e+02; ive 2; Mismatches 0; Indels Query Match
Best Local Similarity 66.7
Matches 4; Conservative

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2 EHDGIN 7

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||:|:| 58 EHEGLN 63

Search completed: June 15, 2004, 12:25:20 Job time : 56 secs

4815, Ap 5829, Ap 7, Appli 1, Appli 76, Appl 38, Appl 38, Appl 38, Appl 10461, A 11391, Appl 11391, Appl 71, Appl

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Sequence 2
Sequence 1
Sequence 7
Sequence 7
Sequence 3
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               Sequence
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76.9%; Score 30; DB 2; Length 109;
Best Local Similarity 71.4%; Pred. No. 38;
Matches 5; Conservative 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: Floppy disk
COMPUTER: STREM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/470,670A
FLING DATE:
CLASSIFICATION NUMBER: US/08/448
FLING APPLICATION NUMBER: 37,642
REPERENCE/DOCKET NUMBER: 37,642
REGISTRENCE/DOCKET NUMBER: 37,642
REGISTRENCE/DOCKET NUMBER: 37,642
REGISTRENCE/DOCKET NUMBER: 37,642
REGISTRENCE/DOCKET NUMBER: 37,642
RETERRANTON INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION FOR SEQ ID NO: 11:
SEQUENCE CHRAACTERISTICS:
LENGTH: 109 anino acids
                                                                                                                                                                                                                                                                                                                    Sequence 11, Application US/08470670A

Sequence 11, Application US/08470670A

Patent No. 5834309

Patent No. 5834309

Patent No. 5834309

Patent No. 5834309

TITECONT: Boise, Lawrence H.

TITLE OF INVENTION: VERTEBRATE APOPTOSIS GENE:

TITLE OF INVENTION: VERTEBRATE AND METHODS

NUMBER OF SEQUENCES: 18

CORRESPONDENCE ADDRESS:

ADDRESSEE: ALTOIG, White & Durkee

STREET: P.O. Box 4433

CITY: Houston

STREET: Passe

COUNTRY: United States of America
US-09-328-352-4815
US-09-621-976-5829
US-08-047-033-2
US-08-047-033-1
US-09-527-431-76
US-09-310-948-25109
US-09-310-948-25109
US-09-252-9918-25109
US-09-489-0398-10461
US-09-489-0398-11391
US-09-68-088-71
US-09-168-888-78
US-09-168-888-78
US-09-561-756-42
US-09-561-756-42
US-09-561-756-42
US-09-561-756-42
US-09-561-756-42
US-09-561-756-42
US-09-954-697-42
                                                                                                                                                                                                                                                             ALIGNMENTS
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TYPE: amino acid
STRANDEDNESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 LEHDGIN 7
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US-08-470-670A-11
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6247, Ap
2, Appli
20, Appli
21, Appl
21, Appl
8687, Ap
25, Appl
131, Appl
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73, Appl
4957, Ap
6650, Ap
7907, Ap
4, Appli
37, Appli
37, Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                            June 15, 2004, 12:22:52; Search time 23 Seconds (without alignments) 15.712 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 1
Sequence 1
Sequence 7
Sequence 7
Sequence 7
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                                                                                                                                                                                                                                                                                                                                                                                          1: /cgn2 6/ptcdata/2/laa/5A COMB.pep:*
2: /cgn2 6/ptcdata/2/laa/5B COMB.pep:*
3: /cgn2 6/ptcdata/2/laa/6A COMB.pep:*
4: /cgn2 6/ptcdata/2/laa/6B COMB.pep:*
5: /cgn2 6/ptcdata/2/laa/PCTUS COMB.pep:*
6: /cgn2 6/ptcdata/2/laa/PCTUS COMB.pep:*
                 GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-470-670A-11
US-09-521-650-13
US-09-521-650-13
US-09-134-000C-650
US-09-134-000C-650
US-09-134-000C-650
US-09-134-000C-650
US-09-134-000C-650
US-09-134-122-37
US-09-331-930A-16
US-09-331-930A-19
US-09-331-930A-20
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                                                                                                                                                                                                                                                                 Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                     389414 seqs, 51625971 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SUMMARIES
                                                                                                                                                                                                                                                                                                                               Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                   OM protein - protein search, using sw model
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Gapop 10.0 , Gapext 0.5
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                                                                                                                                           US-09-394-019C-212
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Match Length DB
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                                                                                                                                                                                                                                                                                          length: 0
length: 150
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Perfect score:
                                                                                                                                                                                                                                                                                           Minimum DB seq
Maximum DB seq
                                                                                                                                                                                                  Scoring table:
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                                                                                                Run on:
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Gaps

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Sequence 73, Application US/09168888

patent No. 634261

GENERAL INFORMATION:
APPLICANT: Weber, Eckard
APPLICANT: Cai, Sui Xiong
APPLICANT: Chang, Han-Zhong
ITLE OF INVENTION: No. 6342611e1 Fluorogenic or Fluorescence
ITLE OF INVENTION: Screening Assays for Caspases and Other Enzymes and the
ITLE OF INVENTION: Screening Assays for Caspases and Other Enzymes and the
ITLE OF INVENTION: UNMER: US/09/168,888
CURRENT APPLICATION NUMBER: US 09/033,661
EARLIER FILING DATE: 1998-10-10
EARLIER FILING DATE: 1998-10-10
EARLIER FILING DATE: 1998-10-30
NUMBER OF SEQ ID NOS: 142
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 73
LENGTH: 5
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Patent No. 6583275
GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                             ; OTHER INFORMATION: Description of Artificial Sequence:Synthetic ; OTHER INFORMATION: Peptide US-09-521-650-73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 74.4%; Score 29; DB 4; Length 5; Best Local Similarity 100.0%; Pred. No. 3e+05; Matches 5; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 74.4%; Score 29; DB 4; Length 5; Best Local Similarity 100.0%; Pred. No. 3e+05; Matches 5; Conservative 0; Mismatches 0; Indels
EARLIER FILING DATE: 1998-10-09
FEARLIER APPLICATION NUMBER: US 60/061,582
FEARLIER FILING DATE: 1997-10-10
FEARLIER APPLICATION NUMBER: US 09/033,661
FEARLIER FILING DATE: 1998-03-03
NUMBER OF SEQ ID NOS: 142
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 73
LENGTH: 5
                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Artificial Sequence
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US-09-168-888-73
                                                                                                                                                                                                                                                                                                                                                                                                      FEATURE:
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Sequence 73, Application US/09521650

Patent No. 6335429

GENERAL INFORMATION:
APPLICANT: Weber, Eckard

APPLICANT: Cai, Sui Xiong

APPLICANT: Cai, Sui Xiong

APPLICANT: Cai, Sui Xiong

APPLICANT: Lores, John F.W.

APPLICANT: Lores, John F.W.

APPLICANT: Cans, John F.W.

APPLICANT: Cans, John F.W.

APPLICANT: Cans, John F.W.

APPLICANT: Cans, Multiple Of NUSENTION: Their Applications for Whole-Cell Fluorescence

TITLE OF INVENTION: Their Applications for Whole-Cell Fluorescence

TITLE OF INVENTION: Use Thereof

FILE REFERENCE: 1735.0290002

CURRENT APPLICATION NUMBER: 08/09/521,650

CURRENT APPLICATION NUMBER: 09/168,888
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
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                                                                                                                                                                                                                                                                                                                      APPLICANT: Thompson, Craig B.B.
Boise, Lawrence H.
IILE OF INVENTION: VERTEBRATE APOPTOSIS GENE: COMPOSITIONS AND METHODS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STRATE: P.O. Box 4433
CITY: Houston
STRATE: TAXAS
COMPUTER: TAXAS
COMPUTER READABLE FORM:
MEDIUM TYBE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: BATCHIN Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/461,511A
FILING DATE: OS-Jun-1995
CLASSIFICATION: UNKNOWN
ATTORNEY/AGENT INFORMATION:
NAME: Highlander, Steven L.
REGISTRATION NUMBER: 37,642
REPERENCE/DOCKET NUMBER: 37,642
TELECOMMUNICATION INFORMATION:
TELEPRENCE (12) 418-3000
INFORMATION FOR SEQ 1D NO: 11:
SEQUENCE CHARRACTERISTICS:
LENGTH: 100 emain o cids
TURNEY: ALL OF CHARRACTERISTICS:
LENGTH: 100 emain o cids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    76.9%; Score 30; DB 4; Length 109; 71.4%; Pred. No. 38; tive 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 11:
                                                                                                                                                                                                          Sequence 11, Application US/08461511A Patent No. 6303331 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: amino acid
STRANDEDNESS: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 76.9
Best Local Similarity 71.4
Matches 5; Conservative
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LFHDGVN 51
                                  45 LFHDGVN 51
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US-09-521-650-73
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us-09-394-019c-212.rai

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Gaps .. 0

Length 86; 1; Indels

74.4%; Score 29; DB 4; 83.3%; Pred. No. 47; ive 0; Mismatches

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Sequence 7907, Application US/09543681A

Patent No. 6605709

GENERAL INFORMATION:
APPLICANT: GARY BRETON

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILL)

TITLE OF INVENTION: DAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 2002-001

CURRENT APPLICATION NUMBER: US/09/543,681A

CURRENT FILING DATE: 1999-04-05

PRIOR FILING DATE: 1999-04-09

SEQ ID NO 7907

LENGTH: 142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ouery Match 74.4%; Score 29; DB 4; Length 142; Best Local Similarity 100.0%; Pred. No. 83; Matches 5; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT; ORGANISM: Proteus mirabilis
US-09-543-681A-7907
                                                                               Query Match
Best Local Similarity 83.3
Matches 5; Conservative
                                                                                                                                                                                                          28 EHSGIN 33
                                                                                                                                                                   2 EHDGIN 7
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ENTEROCCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS CORRESPONDENCE ADDRESS: 7310
ADDRESSE: GENOME THERAPEUTICS CORPORATION
STREET: 100 Beaver Street
CITY: Waltham
STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
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74.4%; Score 29; DB 4; Length 83;
Best Local Similarity 83.3%; Pred. No. 45;
Matches 5; Conservative 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                       CURRATING SYSTEM: <UNKNOWN>
CORRATING SYSTEM: <UNKNOWN>
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/107,532A
FILING DATE: 30-Jun-1998
FILING DATE: 14 May 1998
APPLICATION NUMBER: 60/051571
FILING DATE: 114 May 1998
APPLICATION NUMBER: 60/051571
FILING DATE: UNLY 2, 1997
ATTORNEY INFORMATION:
NAME: ATTINIBLO, PAMELA DENEKE
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: 40,489
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM: Enterococcus faecium
                                                                                                                                                                                                                              ZIP: 02354
COMPUTER READABLE FORM:
MEDIUM TYPE: CD/ROM ISO9660
COMPUTER: PC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          INFORMATION FOR SEQ ID NO: 4957:
SEQUENCE CHARACTERISTICS:
LENGTH: 83 amino acids
                                                                                                                                                                                     STATE: Massachusetts
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORIGINAL SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |:||||
57 LKHDGI 62
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ZIP: 94301
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/497,025
                                                                                                                                                                                                                                                                                                              FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/149,212
FILING DATE: 05-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Smith, William M
REGISTRATION NUMBER: 30,223
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NESOUR CONTROL CONTROL

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Query Match
Best Local Similarity 42.9%;
Matches 3; Conservative
                             ; TOPOLOGY: linear; MOLECULE TYPE: peptide US-08-836-561-37
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6 VDHNGVN 12
                                                                                                                                                                                                              1 LEHDGIN 7
       STRANDEDNESS:
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                                                                                                                                                                                                                                                                                                                             /note= "A variable-type
immunoglobulin-type domain of ARAg-h-1."
                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 71.8%; Score 28; DB 1; Length 116; Best Local Similarity 66.7%; Pred. No. 1.1e+02; Matches 4; Conservative 2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human Interleukin-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 37, Application US/08836561
Sequence 37, Application US/08836561
Patent No. 6018032
GENERAL INFORMATION:
APPLICANT: FORICE, Masamichi
APPLICANT: FURUYA, Akiko
APPLICANT: INTO, Akiko
APPLICANT: NAKAWURA, Kazuyasu
APPLICANT: HANAI, No. 6018032uo
APPLICANT: HANAI, No. 6018032uo
APPLICANT: HANAI, No. 6018032uo
APPLICANT: HANAI, No. 6018032uo
APPLICANT: ARANSUN. Riyoshi
ITILE OF INVENTION: Receptor Alpha Chain
NUMBER OF SEQUENCES: 106
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds Ll.P
STREET: 1155 Avenue of the Americas
CITY: Now York
STRATE: NY
REFERENCE/DOCKET NUMBER: 5490A-219
TELECHMUNICATION INFORMATION:
TELEPHONE: (415) 326-2420
TELEPHONE: (415) 326-2422
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHAPACIFERISTICS:
LENGTH: 116 anino acids
TYPE: anino acid
STRANDEDNESS: single
TOPOLOGY: unknown
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTY: usa.
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSRQ Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,561
FILING DATE: 09-MAY-1997
CLASSIFICATION: DATA:
APPLICATION NUMBER: US/08/836,561
FILING DATE: 11-SEP-1995
ATTORNEY/AGENT INFORMATION:
NAME: Lawrence, III, Stanton TREGISTRATION NUMBER: 25,736
TELECHONE, LAWRENCE, 11, Stanton TREGISTRATION INFORMATION:
TELECHONE: 212-99-999
TELECHONICATION NUMBER: 25,736
TELECHONE: 212-99-999
TELECHONICATION INFORMATION:
TELECHONE: 12-99-999
TELECHONE: 212-99-999
TELECHONE: 12-99-999
TELECHONE: 15 amino acids
TYPE: amino acids
TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 005-115-999
                                                                                                                                                                                                                                                                        NAME/KEY: Peptide
| LOCATION: 1..116
| COTER INFORMATION:
| CTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |:|||:
52 LQHDGL 57
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STATE: N
COUNTRY:
```

Gaps

Score 27; DB 3; Length 15; Pred. No. 16; 4; Mismatches 0; Indels

US-09-331-930A-16; Sequence 16, Application US/09331930A; Patent No. 6436670

```
Sequence 6499, Application US/09107532A
Patent No. 6583275
GENERAL INFORMATION:
APPLICANT: Lynn A Doucette-Stamm and David Bush
APPLICANT: Lynn A Doucette-Stamm and David Bush
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
FITLE OF INVENTION: ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 69.2%; Score 27; DB 4; Length 62; Best Local Similarity 66.7%; Pred. No. 85; Matches 4; Conservative 2; Mismatches 0; Indels
                                                                                                                                                                       NUMBER OF SEQUENCES: 7310
CORRESPONDENCE ADDRESS:
ADDRESSES: GENOME THERAPEUTICS CORPORATION
STREET: 100 Beaver Street
                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:

MEDITUM TYPE: CD/ROM ISO9660

COMPUTER: PC

OPERATING SYSTEM: «Unknown>
SOFTWARE: ASCTI

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/107,532A

FILING DATE: 30-Jun-1998

PILING DATE: 14 May 1998

FILING DATE: 14 May 1998

FILING DATE: 14 May 1998

APPLICATION NUMBER: 60/065,598

FILING DATE: 14 May 1997

ATTORNEY/AGENT INFORMATION:

NAME: ATINGIL, PARMATION:

NAME: ATINGIL, PARMATION:

REGESTRATION NUMBER: 40,489

REGESTRATION NUMBER: 40,489

REGESTRATION INFORMATION:

TELEPHONE: (781,893-5007)

TELEPHONE: (781,893-507)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            )

NAME/KEY: misc_feature

LOCATION: (B) LOCATION 1...62

SEQUENCE DESCRIPTION: SEQ ID NO: 6499:
US-09-107-532A-6499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Enterococus faecium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     INFORMATION FOR SEQ ID NO: 6499:
SEQUENCE CHARACTERISTICS:
LENGTH: 62 amino acids
                                                                                                                                                                                                                                                                                           CITY: Waltham
STATE: Massachusetts
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20 QHNGIN 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2 EHDGIN 7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 69.2%; Score 27; DB 4; Length 33; 80.0%; Pred. No. 41; 1; Mismatches 0; Indels ive
                                                                                                                                                                                               APPLICANT: ZIMET, PAUL Z.
APPLICANT: ZIMET, PAUL Z.
APPLICANT: ZIMET, PAUL Z.
TITLE OF INVENTION: A NOVEL GENE AND USES THEREFOR FILE REFERENCE: 22975-2007.00
CURRENT APPLICATION WUMBER: US/09/331,930A
CURRENT FILING DATE: 1999-06-30
PRIOR APPLICATION NUMBER: PCT/AU98/00902
PRIOR APPLICATION NUMBER: PCT/AU98/00902
PRIOR APPLICATION NUMBER: AU PPO117/97
PRIOR FILING DATE: 1997-10-31
PRIOR FILING DATE: 1997-11-11
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PALENTING DATE: 1997-11-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-31-930A-18
Sequence 18, Application US/09331930A
Sequence 18, Application US/09331930A
Sequence 18, Application US/09331930A
Sequence 18, Application US/09331930A
GENERAL INCORMATION:
APPLICANT: ZIMMET, PAUL Z.
APPLICANT: COLLIER, CREGORY
TITLE OF INVENTION: UNDER US/09/331,930A
CURRENT APPLICATION NUMBER: US/09/331,930A
CURRENT APPLICATION NUMBER: PCT/AU98/00902
PRIOR PILING DATE: 1999-10-30
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: AU PP0117/97
PRIOR PILING DATE: 1997-11-11
NUMBER OF EEQ ID NOS: 27
SOFTWARE: PatentIN Ver. 2.1
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TYPE: PRT ORGANISM: Psammomys obesus

US-09-331-930A-16

23 HDGMN 27

3 HDGIN 7

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Sequence 6247, Application US/09543681A
| GENERAL INFORMATION:
| APPLICATION:
| TITLE OF INVENTION: UTCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILL)
| TITLE OF INVENTION: UTCLEIC AND THERAPEUTICS
| TITLE OF INVENTION: UTCLEIC AND THERAPEUTICS
| TITLE OF INVENTION: UNMERR: US/09/543,681A
| CURRENT FILING DATE: 2000-04-05
| PRIOR FILING DATE: 1999-04-09
| NUMBER OF SEQ ID NOS: 8344
0; Gaps
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TYPE: PRT
ORGANISM: Psammomys obesus
US-09-331-930A-18

SEQ ID NO 18 LENGTH: 33

Query Match
Best Local Similarity 80.0
Matches 4; Conservative

23 HDGMN 27

RESULT 13 US-09-107-532A-6499

3 HDGIN 7

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ORGANISM: Unknown Organism FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
CORGANISM: Homo sapiens
US-09-331-930A-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT (CRGANISM: Murine sp. US-09-331-930A-21
                                                                                                                                                                                                                                  |||:|
63 HDGWN 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |||:|
63 HDGMN 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3 HDGIN 7
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                                                                                                                                                                                                                                                                                                                   RESULT 17
US-09-331-930A-20
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OTHER INFORMATION: Description of Unknown Organism: Amino acid
OTHER INFORMATION: sequence for beacon from unknown organism
US-09-331-9308-2
                                                                                                     Score 27; DB 4; Length 65;
Pred. No. 89;
1; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
69.2%; Score 27; DB 4; Length 73;
Best Local Similarity 80.0%; Pred. No. 1e+02;
Matches 4; Conservative 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 16
US-09-331-930A-19
Sequence 19, Application US/09331930A
Patent No. 6436670
GENERAL INFORMATION:
APPLICANT: ZIMMET, PAUL Z.
APPLICANT: COLLIER, GREGORY
TILE OF INVENTION: A NOVEL GENE AND USES THEREFOR FILE REFERENCE: 22975-2000'.00
CURRENT APPLICATION NUMBER: US/09/331,930A
CURRENT FILING DATE: 1999-06-30
PRIOR APPLICATION NUMBER: PCT/AU98/00902
PRIOR APPLICATION NUMBER: AU PP0117/97
PRIOR FILING DATE: 1997-10-31
PRIOR FILING DATE: 1997-10-31
PRIOR FILING DATE: 1997-11-11
NUMBER OF SEQ 1D NOS: 27
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 19
TYPE: PRI
                                                                                                                                                                                                                                                                                           RESULT 15
UG-09-331-930A-2

Sequence 2, Application US/09331930A

Patent No. 6436670

GENERAL INFORMATION:

APPLICANT: ZIMMET, PAUL Z.

APPLICANT: COLLIER, GREGORY

TITLE OF INVENTION: A NOVEL GENE AND USES THEREFOR

FILE REFERENCE: 2297-20007.00

CURRENT APPLICATION NUMBER: US/09/331,930A

CURRENT FILING DATE: 1999-06-30

PRIOR APPLICATION NUMBER: PUS/09002

PRIOR FILING DATE: 1999-10-30

PRIOR APPLICATION NUMBER: AU PP0117/97

PRIOR APPLICATION NUMBER: AU PP0323/97

PRIOR APPLICATION NUMBER: AU PP0323/97

PRIOR FILING DATE: 1997-11-11

NUMBER OF SEQ ID NOS: 27

SOFTWARE: PATENTING DATE: 1997-11-11

SOFTWARE: PATENTING DATE: 1997-11-11
                                                                                                       Query Match
Best Local Similarity 57.1%;
Matches 4; Conservative
  ; LENGTH: 65
; TYPE: PTT
; ORGANISM: Proteus mirabilis
US-09-543-681A-6247
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
ORGANISM: Unknown Organism
                                                                                                                                                                                                                       25 LSHSGVN 31
                                                                                                                                                                                            1 LEHDGIN 7
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| CTHER TREPARATION: Description of Unhoom Organism: Amino acid
| CTHER TREPARATION: Sequence for beacon from Linkubown organism:
| US-05-311-910A-10 |
| Description: A | Conservative | 1, Mismatchee | 0, Indels | 0, Gaps | 0; | |
| Matches | 4 | Conservative | 1, Mismatchee | 0, Indels | 0, Gaps | 0; |
| Matches | 4 | Conservative | 1, Mismatchee | 0, Indels | 0, Gaps | 0; |
| Matches | 4 | Conservative | 1, Mismatchee | 0, Indels | 0, Gaps | 0; |
| Matches | 4 | Conservative | 1, Mismatchee | 0, Indels | 0, Gaps | 0; |
| Matches | 4 | Conservative | 1, Mismatchee | 0, Indels | 0, Gaps | 0; |
| Matches | 4 | Conservative | 1, Mismatchee | 0, Indels | 0, Gaps | 0; |
| Matches | 4 | Conservative | 1, Mismatchee | 0, Indels | 0, Gaps | 0; |
| Matches | 4 | Conservative | 1, Mismatchee | 0, Indels | 0, Gaps | 0; |
| Matches | 4 | Conservative | 1, Mismatchee | 0, Indels | 0, Gaps | 0; |
| Matches | 4 | Conservative | 1, Mismatchee | 0, Indels | 0, Gaps | 0; |
| Matches | 4 | Conservative | 1, Mismatchee | 0, Indels | 0, Gaps | 0; |
| Matches | 4 | Conservative | 1, Mismatchee | 0, Indels | 0, Gaps | 0; |
| Matches | 4 | Conservative | 1, Mismatchee | 0, Indels | 0, Gaps | 0; |
| Matches | 4 | Conservative | 1, Mismatchee | 0, Indels | 0, Gaps | 0; |
| Matches | 4 | Conservative | 1, Mismatchee | 0, Indels | 0, Gaps | 0; |
| Matches | 4 | Conservative | 1, Mismatchee | 0, Indels | 0, Gaps | 0; |
| Matches | 4 | Conservative | 1, Mismatchee | 0, Indels | 0, Gaps | 0; |
| Matches | 4 | Conservative | 1, Mismatchee | 0, Indels | 0, Gaps | 0; |
| Matches | 1, Mismatchee | 0, Mismat
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: KOIKE, Masamichi
FURUYA, Akiko
NAKAMURA, Kazuyasu
IIDA, Akihiro
ANAZAWA, Hideharu
HANAI, No. 6538111uo
TAKATSU, Kiyoshi
TITLE OF INVENTION: Antibody Against Human
Receptor Alpha Chain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Lawrence, III, Stanton T
REGISTRATION NUMBER: 25,736
REFERENCE/DOCKET NUMBER: 7005-115-999
TELECOMUNICATION INFORMATION:
TELEPHONE: 212-790-9090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FRASENCO Vereion 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/434,122
FILING DATE: 05-NO. 6538111-1999
PRIOR APPLICATION NUMBER: 08/836,561
FILING DATE: 09-MAY-1997
APPLICATION NUMBER: 09/836,561
FILING DATE: 11-SEP-1997
APPLICATION NUMBER: 197
APPLICATION NUMBER: 197
APPLICATION NUMBER: 197
APPLICATION NUMBER: 197
APPLICATION NUMBER: 11-SEP-1997
ATTORNEY AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americas
CITY: New York
ATTORNEY/AGENT INFORMATION:

NAME: Lawrence, III, Stanton T
REGISTRATION NUMBER: 25,736

REFERENCE/DOCKET NUMBER: 7005-115-999

TELECOMMUNICATION INFORMATION:
TELEPAX: 212-69-9741
TELEPAX: 212-69-9741
TELEPAX: 212-669-9741
TELEPAX: 213-669-9741
SEQUENCE CHARACTERISTICS:
LENGTH: 131 amino acids
TYPE: amino acid
STRANDEDNESS: single
TYPE: amino acid
STRANDEDNESS: single
TYPE: Amino acid
STRANDEDNESS: single
TYPE: MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                         4; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEFAX: 212-869-9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 131 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 21
US-09-434-122-25
; Sequence 25, Application US/09434122
; Patent No. 6538111
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQUENCES: 106
                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 42.9
Matches 3; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1:|:|:
49 VDHNGVN 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 LEHDGIN 7
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                                                                                                                                                                                                                                                                        Sequence 8087, Application US/09543681A

Sequence 8087, Application US/09543681A

Patent No. 6605/09

GENERAL INFORMATION:

GENERAL INFORMATION:

TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS

TITLE OF INVENTION: US/09/543,681A

CURRENT APPLICATION NUMBER: US/09/543,681A

CURRENT FILING DATE: 2000-04-05

PRIOR APPLICATION NUMBER: US 60/128,706

PRIOR APPLICATION NUMBER: US 60/128,706

NUMBER OF SEQ ID NOS: 8344

SEQ ID NO 8087

LENGTH: 125

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                                                                              Gaps
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US-08-836-561-25
Sequence 25, Application US/08836561
FREET NO. 6018030;
GENERAL INFORMATION:
APPLICANT: FURIVA, Akiko
APPLICANT: MAKAWURA, KAZUYASU
APPLICANT: NAKAWURA, Hideharu
APPLICANT: ARANINA, Hideharu
APPLICANT: ARANINA, Hideharu
APPLICANT: TAKAYSU, Kiyoshi
TITLE OF INVENTION: Receptor Alpha Chain
NUMBER OF SEQUENCES: 106
CORRESPONDENCE ADDRESS:
ADDRESSES: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americas
CITY: New York
CITY: New York
STATE: NY
COUNTRY: USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      69.2%; Score 27; DB 4; Length 125; 66.7%; Pred. No. 1.9e+02; ive 2; Mismatches 0; Indels
                              69.2%; Score 27; DB 4; Length 73; 80.0%; Pred. No. 1e+02; cive 1; Mismatches 0; Indels
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COMPUTER READBLE FORM:
COMPUTER READBLE FORM:
COMPUTER: Diskette
COMPUTER: DISKET DOS
COMPUTER: DISKET DISKET
PILING DATE: 09-MAY-1997
CLASSIPICATION A 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: DISPISSAB4/95
FILING DATE: 11-SEP-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT; ORGANISM: Proteus mirabilis
US-09-543-681A-8087
                           Query Match
Best Local Similarity 80.0
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 66.7
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 LEHDGI 6
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63 HDGMN 67
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US-09-543-681A-8087
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US-09-106-56BE-131
Sequence 131, Application US/0910656BE
Sequence 131, Application US/0910656BE
Sequence 131, Application US/0910656BE
Sequence 131, Application US/0910656BE
GENERAL INFORMATION:
APPLICANT: Bhattacherise, Vasker
TITLE OF INVENTION:
FILE REPERENCE: 96.247-A
CURRENT FILING DATE: 1998-06-29
FRIOR FILING DATE: 1999-06-20
NUMBER OF SEQ ID NOS: 160
SOFTWARE Microsoft Word 97
LENGTH: 40
LENGTH: 40
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                                                                                                                                                                                                                                                                                                                                                            Gaps
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(S-08-936-165A-289)
(S-08-936-165A-289)
(S-08-936-165A-289)
(S-08-936-165A-289)
(SENEXL INFORMATION:
(SENEXL INFORMA
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                                                                                                                                                                                                                                                              Query Match 69.2%; Score 27; DB 4; Length 131; Best Local Similarity 42.9%; Pred, No. 2e+02; Matches 3; Conservative 4; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
66.7%; Score 26; DB 4; Length 40;
Best Local Similarity 83.3%; Pred. No. 83;
Matches 5; Conservative 0; Mismatches 1; Indels
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 25:
US-09-434-122-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
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49 VDHNGVN 55
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US-09-236-2048
US-09-236-2048
Sequence 2048, Application US/09540236
Sequence 2048, Application US/09540236
Sequence 2048, Application US/09540236
Setent No. 6673101
GENERAL INCORMATION:
TITLE OF INVENTION: FOR INCORDING AND THERAPEUTICS
TITLE OF INVENTION: FOR INCORDING AND THERAPEUTICS
FILE REFERENCE: 2709.2005-001
CURRENT APPLICATION NUMBER: US/09/540,236
CURRENT FILING DATE: 2000-04-04
NUMBER OF SEQ ID NOS: 3840
SEQ ID NO 2048
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 66.7%; Score 26; DB 4; Length 68; Best Local Similarity 57.1%; Pred. No. 1.5e+02; Matches 4; Conservative 3; Mismatches 0; Indels
ZIP: 19406-0939

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette Compatible
COMPUTER: IBM COMPATIBLE
COPERATING SYSTEM: DOS
SOFTWARE: FASISED for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/936,165A
FILING DATE: 24.5EP-1997
CLASSIFICATION DATA:
APPLICATION NUMBER: 60/027,032
FILING DATE: 24.5EP-1996
ATTORNEY/AGENT IRFORMATION:
NAME: GImmi, Edward R
REGISCHALON NUMBER: 38,891
REFERENCE/DOCKET NUMBER: 38,891
REFERENCE/DOCKET NUMBER: 950549
TELEDHONE: 610-270-4478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 25
US-09-621-976-4677
| Sequence 4677, Application US/09621976
| Parent No. 6639063
| GENERAL INFORMATION:
| APPLICANT: Dumas Milne Edwards, J.B. APPLICANT: Obsert, S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEX:
INFORMATION FOR SEQ ID NO: 28
SEQUENCE CHARACTERISTICS:
LENGTH: 67 amino acids
TYPE: amino acid
STRANDEDNESS: single
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MOLECULE TYPE: Protein
US-08-936-165A-289
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US-09-540-236-2048
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17 LEYDGV 22
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NS-01-328-352-4815

Sequence 4815, Application US/09328352

Sequence 4815, Application US/09328352

Sequence 4815, Application US/09328352

Sequence 4815, Application US/09328352

APPLICANT: Gary L. Breton et al.

APPLICANT: Gary L. Breton et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER

TITLE OF INVENTION: BAUMANII FOR DIAGNOSTICS AND THERAPEUTICS

TITLE OF INVENTION: BAUMANII FOR DIAGNOSTICS AND THERAPEUTICS

CURRENT PILING DATE: 1999-06-04

NUMBER OF SEQ ID NOS: 8252

SEQ ID NO 4815

BENGTH: 133
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 26; DB 4; Length 113
Pred. No. 2.8e+02;
3; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 5829.5, Application US/09621976
| Patent No. 6639063
| Patent No. 6639063
| Patent No. 6639063
| Patent No. 6639063
| APPLICANT: Dumas Mine Edwards, J.B. APPLICANT: Johert, S. APPLICANT: Glordano, J.Y. TITLE OF INVENTION: ESTS and Encoded Human Proteins. FILE REPERSONE: GROSET. 054PR2
| CURRENT APPLICATION NUMBER: US/09/621,976
| CURRENT PILING DATE: 2000-07-21
| NUMBER OF SEQ ID NOS: 19335
| SEQ ID NO 5829
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; Sequence 2, Application US/08047033
; Parent No. 5444157
; GENERAL INFORMATION;
APPLICANT: FUJIO SUZUKI et al,
ITLE OF INVENTION: CHONDROMODULIN-I PROTEIN
                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT; ORGANISM: Acinetobacter baumannii
US-09-328-352-4815
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50.0%;
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Best Local Similarity 50.0
Matches 3; Conservative
                         4; Conservative
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Best Local Similarity 57.1
Matches 4; Conservative
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                                                                                                          81 EHTGLN 86
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51 IXHDGV 56
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; LOCATION: -88..-1
US-09-621-976-5829
                                                                    2 EHDGIN
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                         Matches
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US-09-325-932A-144

is Sequence 144, Application US/09325932A

j Sequence 144, Application US/09325932A

j Sequence 144, Application US/09325932A

j GRNERAL INFORMATION:
APPLICANT: Flin, Barry
APPLICANT: Lasham, Annette

TITLE OF INVENTION: Compositions affecting programmed cell
TITLE OF INVENTION: death and their use in the modification of forestry plant develc

CURRENT APPLICATION NUMBER: US/09/325,932A

CURRENT APPLICATION NUMBER: US/09/325,932A

CURRENT FILING DATE: 1999-06-04

NUMBER OF SEQ ID NOS: 206

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO 144

LENGTH: 109
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                                                                                                                                                                                                                                                                                                              Score 26; DB 4; Length 70; Pred. No. 1.6e+02; 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 88;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              66.7%; Score 26; DB 4; Length 88;
66.7%; Pred. No. 2.1e+02;
ive 2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ASSULIANCE 121-976-6918

JS Sequence 6918, Application US/09621976

JEATENT NO. 6639063

APPLICANT: Dumas Milne Edwards, J.B.
APPLICANT: JODENT, J.Y.

APPLICANT: JOSTANO, J.Y.

TITLE OF INVENTION: ESTS and Encoded Human Proteins.

TURRENT APPLICANTON NUMBER: US/09/621,976

CURRENT FILING DATE: 2000-07-21

NUMBER OF SEQ ID NOS: 19335

SOFTWARE: Patent.pm

SEQ ID NO 6918

LENGTH: 88

TYPE: PRT

ORGANISM: Homo sapiens

US-09-621-976-6918
APPLICANT: Giordano, J.Y.
TITLE OF INVENTION: ESTS and Encoded Human Proteins.
FILE REFERENCE: GENSET. 054PR2
CURRENT APPLICATION NUMBER: US/09/621,976
CURRENT FILING DATE: 2000-07-21
NUMBER OF SEQ ID NOS: 19335
SOFTWARE: Patent.pm
SEQ ID NO 4677
LENGTH: 70
                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 80.0%;
Matches 4; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 66.7
Matches 4; Conservative
                                                                                                                                                                                                                    ; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-621-976-4677
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             41 LEYDGV 46
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Best Local Similarity
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LOHDG 52
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NUMBER OF SEQUENCES: 12

CHARDERS STREET, SON STREET, N.W., 2700

STREET, SON STREET, SON;

COMPUTER STREET, SON;
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TITLE OF LANGES.

PURINAL.

JOURNAL.

JOURNAL.
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Gaps
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VESCUL 33

VESCUL 34

VESCUL 36

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      66.7%; Score 26; DB 4; Length 128; 80.0%; Pred. No. 3.2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0; Indels
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CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/887,534
FILING DATE:
ATTORNEY/ACENT INFORMATION:
NAME: Rin-Laures, Li-Heien
REGISTRATION NUMBER: 33,547
REFERENCS/DOCKET NUMBER: 28341/33996
TELECOMMULCATION INFORMATION:
TELECOMMULCATION INFORMATION:
TELEFAX: (312) 474-6300
TELEEX: (312) 474-6300
TELEEX: (312) 474-6406
INFORMATION FOR SEQ ID NO: 76:
SEQUENCE CHARACTERISTICS:
LENGTH: 128 amino acids
TYPE: amino acids
TYPE: amino acids
FILING DATE:

CLASSIFICATION:
STORNEY/AGENT INFORMATION:
NAME: Rin-Laures, Li-Heien
REGISTRATION NUMBER: 33,547
REFERENCE/DOCKET NUMBER: 28341/33996
TELECOMMUNICATION INFORMATION:
TELEPHONE: (312) 474-6408
TELEFAX: (312) 474-660
INFORMATION FOR SEQ ID NO: 76:
SEQUENCE CHARACTERISTICS:
LENGIH: 128 amino acids
TERGIH: 128 amino acids
TENGIH: 128 amino acids
TENGIH: 128 amino acids
TENGIH: 128 amino acids
TENGIH: 128 amino acids
TOTAL TO
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Best Local Similarity 80.0
Matches 4; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1:|||
39 LOHDG 43
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Pred. No. 3e+02;
2; Mismatches 0; Indels
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Sequence 76, Application US/08887534A
TITLE OF INVENTION: AMTI-BACTERIAL METHODS AND MATERIALS
NUMBER OF SEQUENCES: 106
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun STREET: 233 South Wacker Drive/6300 Sears Tower CITY: Chicago STATE: Illinois COUNTRY: United States of America
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IEM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/887,534A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURE:
NAME/KEY: modified site
LOCATION: 84
IDENTIFICATION METHOD:
OTHER INFORMATION: /note= "Xaa is Cys or Val"
PUBLICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IDENTIFICATION METHOD:
OTHER INFORMATION: /note= "Xaa is Met or Val"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY: modified site
LOCATION: 10
IDENTIFICATION METHOD:
OTHER INFORMATION: /note= "Xaa is Glu or Thr"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; PUBLICATION DATE;
; RELEVANT RESIDUES IN SEQ ID NO:
US-08-047-033-1
                                                                                                                                                               TISSUE TYPE: fetal cartilage
CELL TYPE:
CELL LINE:
ORGANELLE:
INMEDIATE SOURCE:
LIBRARY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 66.7%;
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PEATURE:
    NAME/KEY: modified site
    LOCATION: 7
                                                                                                                                                                                                                                                                                                                                                                                                                      CLONE:
POSITION IN GENOME:
CHROMOSOME/SEGMENT:
MAP POSITION:
UNITS:
                                                                                      DEVELOPMENTAL STAGE
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63 LDHEGI 68
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 LEHDGI 6
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TOPOLOGY: linear
MOLECULE TYPE: peptide
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                                                                                                    RESULT 34

US-08-192-920-038

i Sequence 38, Application US/08392828C

j Patent No. 5795962

i GENERAL INFORMATION:

APPLICANT: INVANGA, SADAAKI

APPLICANT: SEKI, NORLAKI

APPLICANT: ODA, TATSUSHI

APPLICANT: ODA, TOSHIO

TITLE OF INVENTION: NOVEL POLYPEPTIDE AND DNA ENCODING

TITLE OF INVENTION: THERBOF

NUMBER OF SEQUENCES:

ADDRESSEE: PATENT ADMINISTRATOR, TESTA, HURWITZ &

ADDRESSEE: THIBEAULT

STREET: 53 STATE STREET

CITY: BOSTON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 66.7%; Score 26; DB 1; Length 137; Best Local Similarity 66.7%; Pred. No. 3.4e+02; Matches 4; Conservative 2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ) NAME/KEY: Peptide
; LOCATION: 1..137
; OTHER INFORMATION: /note= "XYN Z SEQUENCE (FIGURE 3)"
US-08-392-828C-38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CITY: BOSION
STATE: BASION
STATE: BASION
COUNTRY: USA
COUNTRY: USA
COUNTRY: USA
COMPUTER FRABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/392,828C
FILING DATE: 28-FEB-1995
CLASSIPICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: CAMPBEL. PAULA A
REGISTRATION NUMBER: 32,503
REFERENCE/DOCKET NUMBER: FUN-033
TELEFOOMMINICATION INFORMATION:
TELEFOOMMINICATION INFORMATION:
TELEFAX: (617) 248-7100
TELEFAX: (617) 248-7100
INFORMATION FOR SEQ ID NO: 38:
SEQUENCE CHARACTERISTICS:
LENGTH: 137 amino acids
TYPE: amino acids
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 38, Application US/09330945;
Patent No. 6077946
GENERAL INFORMATION:
APPLICANT: IWANAGA, SADAAKI
APPLICANT: MUTA, TATSUSHI
APPLICANT: SETA, NORIAKI
APPLICANT: ODA, TOSHIO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TOPOLOGY: linear
MOLECULE TYPE: peptide
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8 DYDGIN 13
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39 LQHDG 43
1 LEHDG 5
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US-09-330-945-38
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RESULT 36
US-09-252-991A-25109
i Sequence 2519, Application US/09252991A
i Sequence 251795
i GENERAL INFORMATION:
APPLICATION:
ITILE OF INVENTION: WICLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
ITILE OF INVENTION: WICLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
ITILE OF INVENTION: WICLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
ITILE REPREBRENCE: 107196-136
CURRENT PAPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR FILING DATE: 1999-02-18
PRIOR PILING DATE: 1998-02-18
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 25109
LINGTH: 139
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66.7%; Score 26; DB 3; Length 137

Best Local Similarity 66.7%; Pred. No. 3.4e+02;

Matches 4; Conservative 2; Mismatches 0; Indels
  DNA ENCODING HORSESHOE CRAB
AMEBOCYTE LYSATE FACTOR G SUBUNIT A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY: Peptide
LOCHATION: 1..137
COCHAR INFORMATION: /note= "XYN Z SEQUENCE (FIGURE 3)'
US-09-330-945-38
TITLE OF INVENTION: DNA ENCODING HORSESHOE CRABITITLE OF INVENTION: AMERICATE LYSATE FACTOR G SUBUNIT NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS: ADDRESSEE: PATENT ADMINISTRATOR, TESTA, HURWITZ & ADDRESSEE: THIBEAULT, LLP STREET: 125 HIGH STREET
CITY: BOSTON
STATE: MA
COUNTRY: USA
                                                                                                                                                                                                                                                                                   ZETP: 02110

CMPUTER: READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: EN PC Compatible
OPERATIONS SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/330,945
FILING DATE:
CLASSIFICATION DATA:
APPLICATION NUMBER: 09/119,995
FILING DATE:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: PITCHER, EDMUND R
REFERENCE/DOCKET NUMBER: PJN-032DV
TELEPHONE: (617) 248-7000
TELEPHONE: (617) 248-7000
INFORMATION FOR SEQ ID NO: 38:
SEQUENCE CHARACTERISTICS:
LENGTH: 137 amino acids
TYPE: amino acids
TTRENDEDNESS: single
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; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-25109
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us-09-394-019c-212.rai

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2 EHDG 5
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| Sequence 11391, Application US/09489039A
| Patent No. 6610836
| Patent No. 6610836
| GENERAL INFORMATION:
| APPLICANT: Gary Ereton et. al
| TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
| TITLE OF INVENTION: NUMBER: US/09/489, 039A
| TITLE OF INVENTION: NUMBER: US/09/489, 039A
| CURRENT APPLICATION NUMBER: US 60/117,747
| PRIOR TILING DATE: 1999-01-29
| RIOR FILING DATE: 1999-01-29
| SEQ ID NO: 14342
| LENGTH: 147
| TYPE: PRI
| CORGANISM: Klebsiella pneumoniae
| US-09-489-039A-11391
                                                                                                                                                                                                                               Sequence 10461, Application US/09489039A
Patent No. 6610836
GENERAL INFORMATION
APPLICANT: Gary Breton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
TITLE OF INVENTION: NUCLEIC ACID AND THERAPEUTICS
TITLE OF INVENTION: PREPROMER: US/09/489,039A
CURRENT PILING DATE: 2000-01-27
CURRENT PILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
SEQ ID NO 10461
LENGTH: 142
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                                            Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   66.7%; Score 26; DB 4; Length 147; 50.0%; Pred. No. 3.7e+02; ive 3; Mismatches 0; Indels
  Length 139;
                                            1; Indels
Score 26; DB 4; I
Pred. No. 3.5e+02;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 39
US-09-521-650-71
; Sequence 71, Application US/09521650
; Patent No. 6335429
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        , TYPE: PRT
, ORGANISM: Klebsiella pneumoniae
US-09-489-039A-10461
Query Match
Best Local Similarity 83.3%;
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 50.0
Matches 3; Conservative
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15 IEHNGI 20
                                                                                                                                82 LVHDGI 87
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46 IDHDGL 51
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                                                                                      1 LEHDGI 6
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US-09-489-039A-11391
                                                                                                                                                                                                 RESULT 37
US-09-489-039A-10461
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Sequence 78, Application US/09521650
Sequence 78, Application US/09521650
Sequence 78, Application US/09521650
Sequence 78, Application US/09521650
SERERAL INPERATION:
APPLICANT: Cai, Sui Xiong
TITLE OF INVENTION: Use Thereof
TITLE OF INVENTION: Use Thereof
TITLE OF INVENTION: Use Thereof
FILE REFERENCE: 1735.029000
CURRENT FAPLICATION NUMBER: 09/168,888
EARLIER FILING DATE: 1998-10-00
EARLIER FILING DATE: 1998-10-00
EARLIER FILING DATE: 1998-10-010
EARLIER FILING DATE: 1998-10-010
EARLIER FILING DATE: 1998-10-03
NUMBER OF SEQ ID NOS: 142
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 78
LENGTH: 5
APPLICANT: Weber, Eckard

APPLICANT: Cai, Sui Xiong
APPLICANT: Cai, Sui Xiong
APPLICANT: Cai, Sui Xiong
APPLICANT: Cai, Sui Xiong
APPLICANT: Caingle A control of the contr
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence:Synthetic
US-09-521-650-71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             64.1%; Score 25; DB 4; Length 5; 100.0%; Pred. No. 3e+05; ive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      64.1%; Score 25;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 100.0
Matches 4; Conservative
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Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURE:

OTHER INFORMATION: Protease sensitive linker region between the small

OTHER INFORMATION: and large subunits of a Rev-caspase
US-09-561-756-42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURE:
OTHER INFORMATION: Protease sensitive linker region between the small
OTHER INFORMATION: and large subunits of a Rev-caspase
US-09-227-721-42
       i LENGTH: 5

i TYPE: PRT
CORGANISM: Artificial Sequence
i FEATURE:
COTHER INFORMATION: Description of Artificial Sequence:Synthetic
US-09-168-888-78
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 42, Application US/09561756
Patent No. 6376226
GENERAL INFORMATION
APPLICANT: Alnemri, Emad S.
TITLE OF INVENTION: RECOMBINANT, ACTIVE CASPASES AND USES
TITLE OF INVENTION: THEREOF
FILE REFERENCE: 480140.431
CURRENT APPLICATION NUMBER: US/09/561,756
PRIOR APPLICATION NUMBER: 09/227,721
PRIOR APPLICATION NUMBER: 09/227,721
PRIOR APPLICATION NUMBER: 09/227,721
NUMBER OF SEQ ID NOS: 116
NUMBER OF SEQ ID NOS: 116
SOPTWARE: FastSEQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-227-721-42
; Sequence 42, Application US/09227721
; Patent No. 6379950
; GENERAL INFORMATION:
; APPLICANT: Alnemri, Emad S.
; TITLE OF INVENTION: THEROF;
; TITLE OF INVENTION: THEROF;
; FILE REFERENCE: 480140.431
; CURRENT APPLICATION NUMBER: US/09/227,721
; CURRENT PLING DATE: 1999-01-08
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: FRASEC for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                        0; Indels
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                                                                                                                                                                                                                                                                                  Ouery Match 64.1%; Score 25; DB 4;
Best Local Similarity 100.0%; Pred. No. 3e+05;
Matches 4; Conservative 0; Mismatches C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            64.1%; Score 25; DB 4;
100.0%; Pred. No. 3e+05;
tive 0; Mismatches 0
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ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT ORGANISM: Artificial Sequence
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Best Local Similarity 100.
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                           2 EHDG 5
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US-09-561-756-42
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LENGTH: 5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH: 5
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                                                                                                                                                                                                                                                                                                                                     Sequence 71, Application US/09168888
| Patent No. 6442611
| GENERAL INFORMATION:
| APPLICANT: Weaker, Eckard
| APPLICANT: Keana, John R.W. |
| APPLICANT: Keana, John R.W. |
| APPLICANT: Canay, Han-Zhong |
| TITLE OF INVENTION: No. 6342611e1 Fluorescent Reporter Molecules and |
| TITLE OF INVENTION: No. 6342611e1 Fluorescence |
| TITLE OF INVENTION: No. 12 Fluorescence |
| TITLE OF INVENTION: Use Thereof |
| TITLE OF INVENTION: Use 1050002 |
| TITLE OF INVENTION: Use 10500002 |
| TITLE OF INVENTION: Use 105000002 |
| TITLE OF INVENTION: Use 105000002 |
| TITLE 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Fluorescent Reporter Molecules and
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patent No. 6342611

GENERAL INFORMATION:
APPLICANT: Weber. Eckard
APPLICANT: Cai, Sui Xiong
APPLICANT: Sharg, Han-Zhong
TITLE OF INVENTION: Tower, John A.
TITLE OF INVENTION: Screening Assays for Caspases and Other Enzymes and the
TITLE OF INVENTION: USe Thereof
TITLE OF INVENTION: USe Thereof
TITLE OF INVENTION: USE Thereof
CURRENT APPLICATION NUMBER: US 60/061,582
CURRENT FILING DATE: 1999-10-09
EARLIER FILING DATE: 1999-10-10
EARLIER PILING DATE: 1998-03-03
NUMBER OF SEQ ID NOS: 142
SOFTWARR: Patentin Ver. 2.0
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CTHER INFORMATION: Description of Artificial Sequence:Synthetic;

CTHER INFORMATION: Peptide

US-09-168-888-71
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Best Local Similarity 100.0%; Pred. No. 3e+05;
Matches 4; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 64.1%; Score 25; DB 4; Length 5; Best Local Similarity .100.0%; Pred. No. 3e+05; Matches 4; Conservative 0; Mismatches 0; Indels
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ORGANISM: Artificial Sequence
                                                                                                       2 EHDG 5
                                                                                                                                                                              2 EHDG 5
                                                                                                                                                                                                                                                                                  RESULT 41
US-09-168-888-71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 42
US-09-168-888-78
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Best Local Similarity 100.0%; Pred. No. 38+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

2 EHDG 5

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Db 2 EHDG 5

US-09-954-697-42

Sequence 42, Application US/09954697

Patent No. 6610541

GENERAL INFORMATION:
PATENT Alnemi; Emad S.
TITLE OF INVENTION: THEREOF

TITLE OF INVENTION: THEREOF

TITLE OF INVENTION: THEREOF

TITLE OF INVENTION: THEREOF

TITLE OF INVENTION WHERE: US/09/954,697

CURRENT FILLING DATE: 2001-09-14

NUMBER OF SEQ ID NOS: 116

SEQ ID NO 42

LENGTH: S

TYPE: PATENT

ORGANISM: Artificial Sequence

SEQ ID NO 42

TYPE: RATURE

OTHER INFORMATION: and large subunits of a Rev-caspase

US-09-954-697-42
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0; Gaps

Query Match 64.1%; Score 25; DB 4; Length 5; Best Local Similarity 100.0%; Pred. No. 3e+05; Matches 4; Conservative 0; Mismatches 0; Indels

Search completed: June 15, 2004, 12:26:30 Job time: 24 secs

2 EHDG 5

GenCore version 5.1.6 Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

June 15, 2004, 12:23:26 ; Search time 42 Seconds (without alignments) 46.954 Million cell updates/sec Run on:

US-09-394-019C-212 39

1 LEHDGIN 7 Title: Perfect score:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table: Sequence:

1158786 seqs, 281726120 residues

581086 Total number of hits satisfying chosen parameters: Searched:

Minimum DB seg length: 0 Maximum DB seg length: 150

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

Published_Applications_AA:*

1: /cgn2_6/ptodata/1/pubpaa/USO7 PUBCOMB.pep:*
2: /cgn2_6/ptodata/1/pubpaa/USO7 PUBCOMB.pep:*
3: /cgn2_6/ptodata/1/pubpaa/USO6_NEW_PUB.pep:*
4: /cgn2_6/ptodata/1/pubpaa/USO6_PUBCOMB.pep:*
5: /cgn2_6/ptodata/1/pubpaa/USO7_NEW_PUB.pep:*
6: /cgn2_6/ptodata/1/pubpaa/USO7_NEW_PUB.pep:*
7: /cgn2_6/ptodata/1/pubpaa/USO8_NEW_PUB.pep:*
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9: /cgn2_6/ptodata/1/pubpaa/USO8_PUBCOMB.pep:*
10: /cgn2_6/ptodata/1/pubpaa/USO9_PUBCOMB.pep:*
11: /cgn2_6/ptodata/1/pubpaa/USO9_PUBCOMB.pep:*
12: /cgn2_6/ptodata/1/pubpaa/USO9_PUBCOMB.pep:*
13: /cgn2_6/ptodata/1/pubpaa/USO9_PUBCOMB.pep:*
14: /cgn2_6/ptodata/1/pubpaa/USO9_PUBCOMB.pep:*
15: /cgn2_6/ptodata/1/pubpaa/USO9_PUBCOMB.pep:*
16: /cgn2_6/ptodata/1/pubpaa/USO0_PUBCOMB.pep:*
17: /cgn2_6/ptodata/1/pubpaa/USO0_PUBCOMB.pep:*
18: /cgn2_6/ptodata/1/pubpaa/USO0_NEW_PUB.pep:*
19: /cgn2_6/ptodata/1/pubpaa/USO0_NEW_PUB.pep:*
10: /cgn2_6/ptodata/1/pubpaa/USO0_NEW_PUB.pep:*
11: /cgn2_6/ptodata/1/pubpaa/USO0_NEW_PUB.pep:*
11: /cgn2_6/ptodata/1/pubpaa/USO0_NEW_PUB.pep:*
11: /cgn2_6/ptodata/1/pubpaa/USO0_NEW_PUB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

H.	199,	165,	206,	201, App	167,	207,		284592,	1105, Ap	4, Appli	234026,	203, App	3 169, App	210542,	160368,
bescription	Sequence	Sequence	Sequence	Seguence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence
QΙ	US-09-747-287-199	US-09-874-350A-165	US-09-874-350A-206	US-09-747-287-201	US-09-874-350A-167	US-09-874-350A-207	US-10-424-599-170453	US-10-424-599-284592	US-10-083-357-1105	US-09-270-983-4	US-10-424-599-234026	US-09-747-287-203	US-09-874-350A-169	US-10-424-599-210542	US-10-424-599-160368
DB	12	12	12	12	12	12	12	13	14	12	7	12	12	12	12
Query Match Length DB	18	18	18	18	18	18	131	16	17	30	99	18	18	55	70
Query Match	100.0	100.0	100.0	89.7	89.7	89.7	7.68	84.6	82.1	79.5	79.5	76.9	76.9	76.9	76.9
Score	39	39	39	35	35	35	35	33	32	31	31	30	30	30	30
Result No.		7	m	4	Ŋ	9	7	æ	σ	10	11	12	13	14	15

e 221 73, 13,	215, 774, A	equence 203 equence 116 equence 142 equence 146	0 147 0 19, 0 19,	Sequence 38, Appl Sequence 39, Appl Sequence 89, Appl Sequence 126, App Sequence 126, App	2627 2088 2022 215 215
424-599-22 425-114-70 347-387-73 -747-287-20 874-350A-1	-09-853-079-215 -10-294-443-215 09-867-550-774 -10-424-599-16558	-10-424-599-20399 -10-369-493-11679 -10-369-493-14258 -10-369-493-14694	424-599- 198-070- 422-571- 422-571-	20044	10-221-172-64 10-424-599-26 10-424-599-26 10-424-599-21 10-424-599-22 10-424-599-22
22,222		15 15 15 15	12 14 16	1166	777777777777777777777777777777777777777
121 128 18 18	0 0 0 0 0 0 4 0	101 127 127	132 137 137	137 137 137	444 444 666 667 667 667 667
0.0447 0.0444 0.444	7.4.7 7.4.4 4.4.4	4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4	4444		4.4.7.4.7.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4
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ALIGNMENTS

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FEATURE:
NAME/KEY: misc_feature
LOCATION: (4)...(4)
COTHER INFORMATION: Xaa is episilon-aminocaproic acid
FEATURE:
NAME/KEY: misc_feature
LOCATION: (14)...(14)
COTHER INFORMATION: Xaa is episilon-aminocaproic acid
US-09-747-287-199
                                                                                                                                                                                                        FEATURE: OTHER INFORMATION: Synthetic peptide.
                                                                                                                                                                                      TYPE: PRT ORGANISM: Artificial
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Score 39; DB 12; Length 18; Pred. No. 0.38;

100.0%;

Query Match Best Local Similarity

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Sequence 201, Application US/09747287

Sequence 201, Application US/09747287

Publication No. US20030207264A1

GENERAL INFORMATION:

APPLICANT: KOMORINA, AKIRA

APPLICANT: PACKARD, BEVERLY S.

ITILE OF INVENTION: HOWO-DOUBLY LABBLED COMPOSITIONS FOR THE DETECTION OF ENZYME

TITLE OF INVENTION: ACTIVITY IN BIOLOGICAL SAMPLES

FILE REFERENCE: 300-94860002

CURRENT APPLICATION NUMBER: US/09/747,287

CURRENT APPLICATION NUMBER: US/09/747,287

CURRENT FILING DATE: 1995-09-10

PRIOR APPLICATION NUMBER: US/08/802,981

PRIOR FILING DATE: 1995-02-10

SPRIOR FILING DATE: 1995-09-11

NUMBER OF SEQ ID NOS: 242

SEQ ID NO 201

LENGTH: 18
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100.0%; Score 39; DB 12; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 7; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 89.7%; Score 35; DB 12; Length 18; Best Local Similarity 100.0%; Pred. No. 2.5; Matches 6; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PEATURE:
OTHER INFORMATION: Protease indicator
NAME/KEY: misc_feature
LOCATION: (4)...(4)
OTHER INFORMATION: Xaa is episilon-aminocaproic acid
NAME/KEY: misc_feature
LOCATION: (14)...(14)
COTATION: (14)...(14)
OTHER INFORMATION: Xaa is episilon-aminocaproic acid
US-09-874-350A-206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COCATION: (14)...(14)
COTHER INFORMATION: Xaa is episilon-aminocaproic acid
US-09-747-287-201
PRIOR APPLICATION NUMBER: US 09/394,019
PRIOR PILING DATE: 1999-09-10
PRIOR APPLICATION NUMBER: US 08/802,981
PRIOR FILING DATE: 1997-02-20
NUMBER OF SEQ ID NOS: 221
SEQ ID NO 206
SEQ ID NO 206
LENGTH: 18
                                                                                                                                                                                                                                                            ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: misc feature
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US-09-747-287-201
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                                                                                                                                                                                                                                                                                                                                                            APPLICANT: CMOOTING. Akira
APPLICANT: ROMOTIYA, Akira
APPLICANT: ROMOTIYA, Akira
APPLICANT: Packard, Beverly
TITLE OF INVENTION: COMPOSITIONS FOR THE DETECTION OF ENZYME ACTIVITY IN BIOLOGICAL &
TITLE OF INVENTION: CAND METHODS OF USE THEREOF
FILE REFERENCE: 300-903840US
CURRENT APPLICATION NUMBER: US/08/00300
FRIOR PILING DATE: 1998-02-20
FRIOR APPLICATION NUMBER: PCT/US09/24882
FRIOR APPLICATION NUMBER: US/09/24882
FRIOR PHORE PILING DATE: 1999-09-10
FRIOR FILING DATE: 1990-09-10
FRIOR FILING DATE: 1990-09-10
FRIOR FILING DATE: 1990-09-10
FRIOR FILING DATE: 1990-09-10
FRIOR APPLICATION NUMBER: US/08/802,981
FRIOR FILING DATE: 1990-09-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SQUENCE 206, Application US/09874350A
Publication No. US20040096926A1
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Concoimmunin, Inc.
APPLICANT: Komoriva, Akira
APPLICANT: Romoriva, Akira
APPLICANT: Packard, Beverly
TITLE OF INVENTION: COMPOSITIONS FOR THE DETECTION OF ENZYME ACTIVITY IN BIOLOGICAL &
TITLE OF INVENTION: AND METHODS OF USE THEREOF
FILE REPERENCE: 300-903840US
CURRENT APPLICATION NUMBER: US/09/874,350A
CURRENT FILING DATE: 2001-06-04
PRIOR FILING DATE: 1998-02-20
PRIOR FILING DATE: 2000-09-11
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                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
100.0%; Score 39, DB 12; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 7; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAWE/KEY: MOD_RES
LOCATION: (1) ... (1)
OTHER INFORMATION: K is blocked with Fmoc
NAME/KEY: MOD RES
LOCATION: (14\overline{T})... (14)
OTHER INFORMATION: X is episilon-aminocaproic acid
NAME/KEY: MOD_RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COTHER INFORMATION: X is epsilon aminocaproic acid ONL-09-874-165.
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                  0; Mismatches
                                                                                                                                                                                                                                                               Application US/09874350A
o. US20040096926A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT
ORGANISM: Artificial Sequence
PEATURE:
                  7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LEHDGIN 12
                                                                                                            1 LEHDGIN 7
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                  Matches
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Sequence 170453, Application US/10424599
Sequence 170453, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Experiment of the control of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 284592. Application US/10424599
Publication No. US20640031072A1
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: A Rosa Thomas J
APPLICANT: A Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53233)B
CURRENT APPLICANTON WUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Indels
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US-10-424-599-170453
                                                                                                                                                                                             CTHER INFORMATION: Protease indicator
NAME/KEY: misc_feature
LOCATION: (4)...(4)
COTHER INFORMATION: Xaa is episilon-aminocaproic acid
NAME/KEY: misc_feature
LOCATION: (14)...(14)
COTHER INFORMATION: Xaa is episilon-aminocaproic acid
US-09-874-350A-207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    89.7%; Score 35; DB 12;
100.0%; Pred. No. 2.5;
iive 0; Mismatches 0,
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NAME/KEY: unsure
LOCATION: (1)..(131)
FEATURE INFORMATION: unsure at all Xaa locations
FEATURE:
                                                                                            TYPE: PRT ORGANISM: Artificial Seguence
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Best Local Similarity 100.
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 100.
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM: Glycine max
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SEQ ID NO 207
                                                                                                                                                                                   FEATURE:
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Publication No. US2004009626A1

Publication No. US2004009626A1

GENERAL INFORMATION:

APPLICANT: Oncoimmunin, Inc.

APPLICANT: Comoring Akira

APPLICANT: Comoring Akira

APPLICANT: Comoring Akira

APPLICANT: Compositions For THE DETECTION OF ENZYME ACTIVITY IN BIOLOGICAL S

TITLE OF INVENTION: COMPOSITIONS FOR THE DETECTION OF ENZYME ACTIVITY IN BIOLOGICAL S

TITLE OF INVENTION: AND METHODS OF USE THEREOF

FILE REPERBENCE: 300-903440US

CURRENT APPLICATION NUMBER: PC7/US90/24862

PRICR PLING DATE: 1998-02-20

PRICR FILING DATE: 1998-09-10

PRICR FILING DATE: 1999-09-10

PRICR FILING DATE: 1997-02-20

NUMBER OF SEQ ID NOS: 221
                                                                                                                                                                                                                                                                                                        APPLICANT: Komoriya, Akira
APPLICANT: Komoriya, Akira
APPLICANT: Fockard, Beverly
ITLE OF INVENTION: COMPOSITIONS FOR THE DETECTION OF ENZYME ACTIVITY IN BIOLOGICAL S
TITLE OF INVENTION: AND METHODS OF USE THEREOF
TITLE OF INVENTION: AND METHODS OF USE THEREOF
CURRENT APPLICATION NUMBER: US/9/874,350A
CURRENT APPLICATION NUMBER: PCT/US98/00300
PRIOR FILING DATE: 2001-06-04
PRIOR FILING DATE: 1998-02-10
PRIOR FILING DATE: 1998-02-10
PRIOR PLICATION NUMBER: US 09/394,015
PRIOR PLICATION NUMBER: US 09/394,015
PRIOR PLICATION NUMBER: US 08/802,981
PRIOR PLICATION NUMBER: US 08/802,981
PRIOR PLICATION DATE: 1997-02-20
NUMBER OF SEQ ID NOS: 221
SOFTWARE: PRECENT OF USE OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURE:
OTHER INFORMATION: Synthetic peptide substrate
NAME/KEY: MOD RES
LOCATION: (1) - (1)
OTHER INFORMATION: K is blocked with Fmco
NAME/KEY: MOD RES
LOCATION: (14) - (14)
OTHER INFORMATION: X is episilon-aminocaproic acid
NAME/KEY: MOD RES
LOCATION: (4) - (4)
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; OTHER INFORMATION: X is epsilon aminocaproic acid
US-09-874-350A-167
                                                                                                                                   Application US/09874350A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                   US20040096926A1
                                                                                                                                        Sequence 167, Application US/
Publication No. US20040096926
GENERAL INFORMATION:
APPLICANT: Oncoimmunin, Inc.
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Best Local Similarity 100.
Matches 6; Conservative
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Sequence 234006, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: La Rosa Thomas J
APPLICANT: Cavalic David K
APPLIC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT CRGANISM: Glycine max FEATURE: DAT_MRT3847_5334C.1.pep US-10-424-599-234026
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LOCATION: (4). [(4)
OTHER INFORMATION: Xaa is episilon-aminocaproic acid
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LOCATION: (14)...(14)

OCATION: Xaa is episilon-aminocaproic acid
US-05-747-287-203
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Publication No. US20030207264A1
GENERAL INFORMATION:
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Matches 5, Conservative
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11 IEHDGI 16
   1 LEHDGI
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US-10-424-599-234026
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US-09-270-983-4
; Sequence 4, Application US/09270983
; Publication WO. US/09270983
; Publication WO. US/09270983
; Publication WO. US/09270983
; Publication WO. US/09270983
; APPLICANT: HAY, Burce A.
; APPLICANT: HAY, Burce A.
; APPLICANT: HAWKINS, Christine V.
; TITLE OF INVENTION: METHOD FOR INDENTIFYING PROTEASES, PROTEASE TARGET SITES AND REGULE TILE REFERENCE: CITIL30-1
; CURRENT APPLICATION NUMBER: US/09/270,983
; CURRENT FILING DATE: 1998-03-17
; PRIOR FILING DATE: 1998-03-20
; WUMBER OF SEQ ID NOS: 12
; SEQ ID NO S: 13
; MUMBER: Patentin version 3.1
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; OTHER INFORMATION: Product Synthesis, such as solid phase synthesis US-09-270-983-4
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82.1%; Score 32; DB 14; Length 17;
Best Local Similarity 71.4%; Pred. No. 9.5;
Matches 5; Conservative 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                          84.6%; Score 33; DB 12; Length 76; 83.3%; Pred. No. 30;
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                                                                                                                                                                                                                                                                                                                         0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-10-03-357-1105

Sequence 1105, Application US/10083357

Publication No. US20030054370A1

GRNERAL INFORMATION:

APPLICANF: Qaindong Zeng et al.

TITLE OF INVENTION: Systemic Discovery of New Genes

FILE PEPERENCE: 032796-030

CURRENT APPLICATION NUMBER: US/10/083,357

CURRENT FILING DATE: 2002-02-27

NUMBER OF SEQ ID NOS: 1346

SEQ ID NO 1105

LENGTH: 17
                                                                                                                                                                     ; OTHER INFORMATION: Clone ID: PAT_MRT3847_99011C.1.pep
US-10-424-599-284592
                                                                                                                                                                                                                                                                                                                     1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-10-083-357-1105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Artificial sequence
NUMBER OF SEQ ID NOS: 285684
                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 83.3
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5 LSHDGLN 11
                  SEQ ID NO 284592
LENCTH: 76
TYPE: PRT
ORGANISM: Glycine m.
FEATURE:
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Sequence 160368, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: La Rosa Thomas J
APPLICANT: Zou Yihua
APPLICANT: Zou Yihua
APPLICANT: Zou Yihua
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
TITLE OF INVENTION NUMBER: US/10/424,599
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 160368
LENGTH: 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 221259, Application US/10424599
| Sequence 221256, Application US/10424599
| Sequence 221256, Application US/10424599
| Publication No. US20040031072A1
| GENERAL INFORMATION |
| APPLICANT: La Rosa Thomas J |
| APPLICANT: Zhou Yihua |
| APPLICANT: Cao Yongwei |
| TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With |
| TITLE OF INVENTION: Blants and Uses Thereof for Plant Improvement |
| TITLE OF INVENTION NUMBER: US/10/424,599 |
| CURRENT APPLICATION NUMBER: US/10/424,599 |
| NUMBER OF SEQ ID NOS: 285684 |
| LENGTH: 121 |
| LENGTH: 121
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                                                                                                                                                                                                             Length 55;
                                                                                                                                                                                                                                                            1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OTHER INFORMATION: Clone ID: PAT_MRT3847_115830C.1.pep
                                                                                                     FEATURE:

; OTHER INFORMATION: Clone ID: PAT_MRT3847_32146C.1.pep

US-10-424-599-210542
                                                                                                                                                                                                             12;
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OTHER INFORMATION: unsure at all Xaa locations
                                                                                                                                                                                                        76.9%; Score 30; DB
57.1%; Pred. No. 86;
iive 2; Mismatches
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Best Local Similarity 100.
Matches 5; Conservative
                                                                                                                                                                                                           Query Match
Best Local Similarity 57.1
Matches 4; Conservative
                                                      TYPE: PRT
ORGANISM: Glycine max
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Glycine max
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ORGANISM: Glycine max
FEATURE:
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19 ISHDGLN 25
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US-10-424-599-160368
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  SEQ ID NO 210542
LENGTH: 55
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US-09-874-350A-169
Sequence 169, Application US/09874350A
Publication No. US20040096926A1
GENERAL INFORMATION:
APPLICANT: Oncoimmun, Inc.
APPLICANT: Concoimmun, Inc.
APPLICANT: Concoimmun, Inc.
APPLICANT: Concoimmun, Inc.
APPLICANT: Composition Compositions for THE DETECTION OF ENZYME ACTIVITY IN BIOLOGICAL STITLE OF INVENTION: AND METHODS OF USE THEREOF
TITLE OF INVENTION: AND METHODS OF USE THEREOF
FILE REFERENCE: 300-903840US
CURRENT APPLICATION NUMBER: US/09/874,350A
PRIOR FILING DATE: 2001-06-04
PRIOR FILING DATE: 1998-02-20
PRIOR FILING DATE: 1998-02-10
PRIOR FILING DATE: 1999-09-10
PRIOR FILING DATE: 1999-09-10
PRIOR FILING DATE: 1999-09-10
PRIOR FILING DATE: 1997-02-20
SOFTWARE: PACHOLICATION NUMBER: US 08/802,981
PRIOR FILING DATE: 1997-02-20
SOFTWARE: PACHOLICATION NUMBER: US 08/802,981
PRIOR FILING DATE: 1997-02-20
SOFTWARE: PACHOLICATION NUMBER: US 08/802,981
PRIOR FILING DATE: 1997-02-20
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US-10-424-599-210542
US-10-424-599-210542
Sequence 210542, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: Cao Vorsie
APPLICANT: Cao Vorsie
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILLE REFERENCE: 38-21(53223)8
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILLING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
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Query Match 76.9%; Score 30; DB 12; Length 18; Best Local Similarity 100.0%; Pred. No. 26; Matches 5; Conservative 0; Mismatches 0; Indels
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PEATURE:
PEATURE:
PEATURE:
POTHER INFORMATION: Synthetic peptide substrate
NAME/FEX: MOD_RES
LOCATION: (1) .. (1)
OTHER INFORMATION: K is blocked with Fmoc
NAME/FEX: MOD_RES
LOCATION: (14)
OTHER INFORMATION: X is episilon-aminocaproic acid
NAME/FEX: MOD_RES
LOCATION: (4) .. (4)
OTHER INFORMATION: X is epsilon aminocaproic acid
US-09-874-350A-169
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ORGANISM: Artificial Sequence
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Sequence 200, Application US/09747287

Sequence 200, Application US/09347287

Publication No. US20030207264A1

GENERAL INFORMATION:
APPLICANT: KOMOSITYA, AKIRA

APPLICANT: PACKARD, BEVERLY S.

TITLE OF INVENTION: ACTIVITY IN BIOLOGICAL SAMPLES

TITLE OF INVENTION: MUMBER: US/09/747,287

CURRENT FILING DATE: 1999-09-10

PRIOR FILING DATE: 1999-09-10

PRIOR PILING DATE: 1999-02-20

PRIOR APPLICATION NUMBER: PCT/US00/24882

PRIOR PILING DATE: 2000-09-11

NUMBER OF SEQ ID NOS: 242

SOFTWARE: Patentin version 3.2

SEQ ID NO 200

LENGTH 18
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FEATURE:
NAME/KEY: misc_feature
LOCATION: (4)...(4)
OTHER INFORMATION: Xaa can be any naturally occurring amino acid
FEATURE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .
                                                                                                                                                                                                                                                         CTHER INFORMATION: Description of Artificial Sequence:Synthetic; OTHER INFORMATION: Peptide US-09-947-387-73
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                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 74.4%; Score 29; DB 9; Length 5; Best Local Similarity 100.0%; Pred. No. 1e+06; Matches 5; Conservative 0; Mismatches 0; Indels
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                                                                                                                                                         TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Oncoimmunin, Inc.
APPLICANT: Komoriya, Akira
APPLICANT: Packard, Beverly
NUMBER OF SEQ ID NOS: 142
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 73
LENGTH: 5
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ORGANISM: Artificial
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Best Local Similarity
Matches 6; Conserv
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US-09-874-350A-166
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Sequence 73, Application US/09947387

Patent No. US20020150885A1

GENERAL INFORMATION:
APPLICANT: Weber, Eckard
APPLICANT: Keans, John F.W.
APPLICANT: Thang, Han-Zhong
TITLE OF INVENTION: Their Applications for Whole-Cell Fluorescence
TITLE OF INVENTION: Use Thereof
TITLE OF INVENTION UNMERR: US 60/061, S82
PRIOR FILING DATE: 1999-10-10
PRIOR PILING DATE: 1998-10-09
PRIOR FILING DATE: 1998-10-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 70959, Application US/10425114

Publication No. US20040034889A1

GENERAL INFORMATION

APPLICANT: Liu, Jingdong

APPLICANT: Zhou, Yihua

APPLICANT: Zhou, Yihua

APPLICANT: Tabaska, Jack E

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                                                                                                                                                                                                                                                         Query Match
76.9%; Score 30; DB 12; Length 121;
Best Local Similarity 57.1%; Pred. No. 2e+02;
Matches 4; Conservative 2; Mismatches 1; Indels
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US-10-425-114-70959
                                                                                                            ; FEATURE;
; OTHER INFORMATION: Clone ID: PAT_MRT3847_41827C.1.pep
US-10-424-599-221259
    NAME/KEY: unsure
LOCATION: (1)..(121)
OTHER INFORMATION: unsure at all Xaa locations
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77 MSHDGLN 83
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FEATURE:
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US-10-425-114-70959
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Sequence 215, Application US/10294443

Sequence 215, Application US/10294443

Publication No. US20040023865A1

GENERAL INFORMATION:

APPLICANT: Read, Steven G.

APPLICANT: Houghton, Raymond L.

APPLICANT: Sleath, Paul R.

APPLICANT: Scarist, Heather

APPLICANT: Gerist, Heather

TITLE OF INVENTION: AND TREATHENT OF B. MICROTI INFECTION

FILE REFERENCE: 210121426612

CURRENT APPLICATION NUMBER: US/10/294,443

CURRENT PILING DATE: 2002-11-13

NUMBER OF SEQ ID NOS: 243

SEQ ID NO 215

LENGTH: 20

THE CONTROL OF THE DIAGNOSE SEQ ID NO 215

SEQ ID NO 215

THE CONTROL OF THE DIAGNOSE SEQ ID NO 215

THE CONTROL OF THE DIAGNOSE SEQ ID NO 215

THE CONTROL OF THE DIAGNOSE SEQ ID NO 215
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Pred. No. 46;
0; Mismatches 1
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Best Local Similarity 83.3%;
Matches 5; Conservative
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US-10-294-443-215
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US-09-867-550-774
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TITLE OF INVENTION: COMPOSITIONS FOR THE DETECTION OF ENZYME ACTIVITY IN BIOLOGICAL STITLE OF INVENTION: AND METHODS OF USE THEREOF
TITLE REPERENCE: 300-903440US
CURRENT APPLICATION NUMBER: US/9/874,350A
CURRENT FILING DATE: 2001-06-04
FRICA APPLICATION NUMBER: PCT/US98/00300
FRICA FILING DATE: 1998-02-20
FRICA FILING DATE: 2098-02-20
FRICA FILING DATE: 2098-02-10
FRICA FILING DATE: 2098-09-11
FRICA FILING DATE: 1998-09-10
FRICA FILING DATE: 1999-09-10
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Publication No. US2003109689A1
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Houghton, Raymond L.
APPLICANT: Houghton, Raymond L.
APPLICANT: Modall, Patricia D.
APPLICANT: Modall, Patricia D.
APPLICANT: Gerist, Heather
TITLE OF INVENTION: AND TREATHER PRORTI INFECTION
FILE REFERENCE: 210121.426011
CURRENT FILING DATE: 2001-05-09
NUMBER OF SEC ID NOS: 224
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 215
LENGTH: 20
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Pred. No. 46;
0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 29; DB 12; Length 18;
Pred. No. 41;
0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Artificial Sequence
ORGANISM: Synthetic peptide substrate
NAME/KEY: MOD RES
LOCATION: (1) - (1)
OTHER INFORMATION: X is blocked with Fmoc
NAME/KEY: MOD RES
LOCATION: (14)
OTHER INFORMATION: X is episilon-aminocaproic acid
NAME/KEY: MOD RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LOCATION: (4) ... (4)
COTHER INFORMATION: X is epsilon aminocaproic acid
US-09-874-350A-166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 85.7%;
Matches 6; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 83.3%;
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
, ORGANISM: Babesia microti
US-09-853-079-215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LETDGIN 12
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Gaps

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1; Indels

Length 20;

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RESULT 23
US-09-867-550-774
J Squence 714, Application US/09867550
Patent No. US2002082206A1
J GENERAL INFORMATION:
APPLICANT: Leach, Martin D.
APPLICANT: Leach, Martin D.
APPLICANT: Leach, Debbie
APPLICANT: Law, Debbie
APPLICANT: Logoer, James
TITLE OF INVENTION: No. US2002082206A1e1 Polynucleotides from Atherogenic Cells and
TITLE OF INVENTION: No. US2002082206A1e1
FILE REFERENCE: 21402-013 (CLus-313)
CURRENT APPLICATION NUMBER: US/09/867,550
CURRENT FILING DATE: 2000-09-30
PRIOR FILING DATE: 2000-00-30
NUMBER OF SEQ ID NOS: 2125
SOFTWARE: PaetSEQ for Windows Version 4.0
SEQ ID NO 774
LENGTH: 84
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74.4%; Score 29; DB 9; Length 84;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 5; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 24
US-10-424-599-165583
; Sequence 165583, Application US/10424599
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Sequence 14258, Application US/10369493

Publication No. US20030233675A1

GENERAL INPORMATION:

APPLICANT: Hinkle, Gregory J.

APPLICANT: Glader, Steven C.

TILLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES

CURRENT APPLICATION NUMBER: US 60/360,039

PRIOR PRING DATE: 2002-02-21

NUMBER OF SEQ ID NOS: 47374

TANGTH: 1277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Deblication No. US20030233675A1

Sequence 14694, Application US/10369493

Publication No. US20030233675A1

GENERAL INFORMATION:

GENERAL INFORMATION:

APPLICANT: Glodwei

APPLICANT: Glod
APPLICANT: Goldman, Barry S.
APPLICANT: Chen, Xianfeng
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
FILE REFERENCE: 38-10(52052)B
CURRENT PAPLICATION NUMBER: US, 1210/369, 493
CURRENT FILING DATE: 2003-02-28
PRIOR FILING DATE: 2003-02-21
NUMBER OF SEQ ID NOS: 47374
SEQ ID NO 11679
LENGTH: 127
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 127;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              74.4%; Score 29; DB 15; I 100.0%; Pred. No. 3.4e+02; ative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT CRGANISM: Agrobacterium tumefaciens US-10-369-493-11679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT; ORGANISM: Agrobacterium tumefaciens US-10-369-493-14258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity luv...
Best S, Conservative
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US-10-369-493-14258
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US-10-369-493-14694
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Sequence 203990, Application US/10424599

Publication No. US20040031072A1

Publication No. US20040031072A1

Publication No. Wood of the sequence 20390, Application No. Wood of the sequence 20390, Application No. US20040031072A1

APPLICANT: La Rosa Thomas J

APPLICANT: La Nova Thomas
                             GENERAL INFORMATION:
APPLICANT: LA ROSA Thomas J
APPLICANT: Kovalic David K
APPLICANT: Kovalic David K
APPLICANT: APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plannts and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21 (53223)
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 165583
LENGTH: 98
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          74.4%; Score 29; DB 12; Length 98; 100.0%; Pred. No. 2.6e+02; ive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; OTHER INFORMATION: Clone ID: PAT_MRT3847_120537C.1.pep
US-10-424-599-165583
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; CTHER INFORMATION: Clone ID: PAT_MRT3847_2622C.1.pep
US-10-424-599-203990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURE:
NAME/KEY: unsure
LOCATION: (1). (98)
OTHER INFORMATION: unsure at all xaa locations
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Publication No. US20030233675A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Cao, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
              Publication No. US20040031072A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 66.7
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 74.4
Best Local Similarity 100.
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT ORGANISM: Glycine max
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT ORGANISM: Glycine max
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             55 EHDGVD 60
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US-10-369-493-11679
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h Similarity 57.1%; Pred. No. 3.7e+02; 4; Conservative 2; Mismatches 1; Indels
        NUMBER OF SEQ ID NOS: 125
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 26
LENGTH: 137
                                                                                                        TYPE: PRT
CORGANISM: Homo sapiens
US-10-198-070-26
                                                                                                                                                                                                            Query Match
Best Local Similarity
Matches 4, Conserva
                                                                                                                                                                                                                                                                                                             1 LEHDGIN 7
                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 31
US-10-422-571-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-10-422-571-29
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US-10-424-599-147562
Sequence 147562, Application US/10424599
Publication No. US20040031072A1
Sequence 147524, Application No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: Kovalic David K
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21 (5223) B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT APPLICATION NUMBER: US/10/424,599
NUMBER OP SEQ ID NOS: 285684
SEQ ID NO 147562
LENGTH: 132
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| Publication No. US20030109437A1
| GENERAL INFORMATION:
| APPLICANT: AVERBACK, PAUL
| APPLICANT: GEMMELL, JACK
| TITLE OF INVENTION: CONDITIONS REQUIRING THE REMOVAL OR DESTRUCTION OF
| TITLE OF INVENTION: CELLS
| TITLE OF INVENTION: CONDITIONS REQUIRING THE REMOVAL OR DESTRUCTION OF
| TITLE OF INVENTION: COLLS
| FILE REFERENCE: 59003 000008
| CURRENT APPLICANTON NUMBER: US/10/198,070
| CURRENT FILING DATE: 2001-07-19
| PRIOR FILING DATE: 2001-07-19
| PRIOR PLLING DATE: 2001-07-19
| PRIOR PLLING DATE: 2001-07-19
| PRIOR FILING DATE: 2001-07-19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURE:
NAME/KEY: unsure
LOCATION: (1) . (132)
OTHER INFORMATION: unsure at all Xaa locations
FEATURE:
COTHER INFORMATION: Clone ID: PAT_MRT3847_104267C.1.pep
US-10-44-599-147562
PRIOR APPLICATION NUMBER: US 60/360,039
PRIOR FILING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374
SEQ ID NO 14694
LENGTH: 127
                                                                                                                              TYPE: PRT CRGANISM: Agrobacterium tumefaciens US-10-369-493-14694
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT ORGANISM: Glycine max
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US-10-198-070-26
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Sequence 19, Application US/10422571
Sequence 19, Application US/10422571
Fublication No. US20040083497A1
GENERAL INFORMATION:
APPLICANT: Raitano, Arthur B.
APPLICANT: Raitano, Arthur B.
APPLICANT: Jakobovits, Aya
APPLICANT: Jakobovits, Aya
APPLICANT: Ge, Wangman
TITLE OF INVENTION: Britled 191P4D12(b) Useful in Treatment and Detection of
TITLE OF INVENTION: Britled 191P4D12(b) Useful in Treatment and Detection of
TITLE OF INVENTION: UNDER: US/10/422,571
TITLE OF INVENTION NUMBER: US/10/422,571
FILE REFERRICE: 51158-2008-00
CURRENT APPLICATION NUMBER: US60/404,306
PRIOR FILING DATE: 2002-08-16
PRIOR PILING DATE: 2002-01-01
NUMBER OF SEQ ID NOS: 130
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 19
LENGTH: 137
TUTLE OF INVENTION NUMBER: US60/423,290
PRIOR PILING DATE: 2002-01-01
SOFTWARE: FastSEQ for Windows Version 4.0
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| Publication No. US20040083497A1
| Publication No. US20040083497A1
| GENERAL INFORMATION:
| APPLICANT: AGENSYS, Inc.
| APPLICANT: Raitano, Arthur B.
| APPLICANT: Challita-Eid, Pia M.
| APPLICANT: Faris, Mary
| APPLICANT: Faris, Mary
| APPLICANT: G. Wangmao
| TITLE OF INVENTION: Nucleic Acids and Corresponding Proteins
| TITLE OF INVENTION: Entitled 191P4012(b) Useful in Treatment and Detection of TITLE OF INVENTION: Cancer
| FILE REFERENCE: 51158-20082.00
| CURRENT APPLICATION UNMBER: US/10/422,571
| CURRENT PILING DATE: 2003-04-23
| PRIOR APPLICATION NUMBER: US/60/404,306
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CRGANISM: Homo sapiens
US-10-422-571-19
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109 LQHQGVN 115
109 LQHQGVN 115
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CURRENT APPLICATION NUMBER: US/10/422,571
CURRENT FILING DATE: 2003-04-23
FRIOR PELING DATE: 2003-04-306
FRIOR PLING DATE: 2002-08-16
FRIOR PLING DATE: 2002-08-16
FRIOR APPLICATION NUMBER: US60/423,290
FRIOR PLING DATE: 2002-11-01
NUMBER OF SEQ ID NOS: 130
SOFTWARE: FastSEQ for Windows Version 4.0
SSC ID NO 39
LENGTH: 137
TYPE: PRT
CRGANISM: Homo sapiens
US-10-422-571-39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Agensys, Inc.
APPLICANT: Challita-Eid, Pia M.
APPLICANT: Faris, Mary
APPLICANT: Nucleic Acids and Corresponding Proteins
TITLE OF INVENTION: Nucleic Acids and Corresponding Proteins
TITLE OF INVENTION: Cancer
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US-10-422-571-39

US-10-422-571-39

Sequence 39, Application US/10422571

Publication No. US20040083497A1

GENERAL INFORMATION:

APPLICANT: Raitano, Arthur B.

APPLICANT: Challita-Eid, Pia M.

APPLICANT: Challita-Eid, Pia M.

APPLICANT: Faria D.

APPLICANT: Ge, Wargmao

TITLE OF INVENTION: Nucleic Acids and Corresponding Proteins

TITLE OF INVENTION: Entitled 191P4D12(b) Useful in Treatment and Detection of

TITLE OF INVENTION: Cancer

TITLE OF INVENTION: Cancer

FILE REFERENCE: 51158-20082.00
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Best Local Similarity 57.1%; Pred. No. 3.7e+02;
Matches 4; Conservative 2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 74.4%; Score 29; DB 16; Length 137; Best Local Similarity 57.1%; Pred. No. 3.7e+02; Matches 4; Conservative 2; Mismatches 1; Indels
    PRIOR FILING DATE: 2002-08-16
PRIOR APPLICATION NUMBER: US60/423,290
PRIOR FILING DATE: 2002-11-01
NUMBER OF SEQ ID NOS: 130
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 29
LENGTH: 137
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Publication No. US20040083497A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                        TYPE: PRT
CAGANISM: Homo sapiens
US-10-422-571-29
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US-10-422-571-38
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Sequence 89, Application US/10422571

Publication No. US20040083497A1

GENERAL INFORMATION:

APPLICANT: Agensye, Inc.

APPLICANT: Chalitae.Ed, Pia M.

APPLICANT: Ge, Mansyman

APPLICANT: Ge, Mansyman

APPLICANT: Ge, Wansyman

APPLICANT: Baris, Mary

APPLICANT: De, INVENTION: Nucleic Acids and Corresponding Proteins

TITLE OF INVENTION: Entitled 191P4D12 (b) Useful in Treatment and Detection of

TITLE OF INVENTION: Cancer

FILE REFERENCE: 51158-20082.00

CURRENT APPLICATION NUMBER: US/10/422,571

CURRENT PELLING DATE: 2002-08-16

PRIOR PELLING DATE: 2002-08-16

PRIOR PELLING DATE: 2002-11-01

NUMBER OF SEQ ID NOS: 130

SOFTWARE: FASTESQ for Windows Version 4.0
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Publication No. US20040083497A1
GENERAL INFORMATION:
APPLICANT: Releasys, Inc.
APPLICANT: Relatio, Arthur B.
APPLICANT: Challita-Eid, Pia M.
APPLICANT: Galobovits, Aya
APPLICANT: Faris, Mary
APPLICANT: Ge, Wangmao
ITILE OF INVENTION: Nucleic Acids and Corresponding Proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; SEQ ID NO 89
; LENGTH: 137
; TYPE: PRT
; CRGANISM: Homo sapiens
US-10-422-571-89
                                                    109 LOHOGVN 115
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1 LEHDGIN 7
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US-10-422-571-126
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Query Match 74.4%; Score 29; DB 16; Length 137; Best Local Similarity 57.1%; Pred. No. 3.7e+02; Matches 4; Conservative 2; Mismatches 1; Indels

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Sequence 130, Application US/10422571

Sequence 130, Application US/10422571

Publication No. US20040083497A1

GENERAL INFORMATION:

APPLICANT: Raitano, Arthur B.

APPLICANT: Challita-Eid, Pia M.

APPLICANT: Ge, Wangmao

TITLE OF INVENTION: Nucleic Acids and Corresponding Proteins

APPLICANT: Extis, Mary

APPLICANT: Sanis, Mary

APPLICANT: Sanis Ma
TITLE OF INVENTION: Entitled 191P4D12(b) Useful in Treatment and Detection of TITLE OF INVENTION: Cancer FILE REPERENCE: $1158-20082.00 CURRENT APPLICATION NUMBER: US/10/422,571 CURRENT FILING DATE: 2003-04-23 PRIOR APPLICATION NUMBER: US60/404,306 PRIOR PILING DATE: 2002-08-16 PRIOR PILING DATE: 2002-08-16 PRIOR FILING DATE: 2002-11-01 NUMBER: US60/423,290 PRIOR FILING DATE: 2002-11-01 NUMBER: OF SEQ ID NOS: 130 SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 126 LENGTH: 137
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; Publication No. US20040034208A1
; GENERAL INFORMATION:
APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NO. US20040034208A1el Nucleic Acids and Polypeptides
; FILE REPERENCE: 21272-045
; CURRENT APPLICATION NUMBER: US/10/221,278
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Best Local Similarity 57.1
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
CRGANISM: Homo sapiens
US-10-422-571-126
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CORGANISM: Homo sapiens
US-10-422-571-130
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US-10-221-278-647
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PRIOR APPLICATION NUMBER: 09/693, 267
PRIOR FILING DATE: 2000-10-20
PRIOR FILING DATE: 2000-10-20
PRIOR FILING DATE: 2000-09-19
PRIOR PILING DATE: 2000-09-19
PRIOR APPLICATION NUMBER: 09/616,847
PRIOR PILING DATE: 2000-07-14
PRIOR APPLICATION NUMBER: 09/596,193
PRIOR FILING DATE: 2000-06-17
PRIOR FILING DATE: 2000-06-17
PRIOR PELING DATE: 2000-05-19
PRIOR PILING DATE: 2000-05-19
PRIOR FILING DATE: 2000-05-19
PRIOR PILING DATE: 2000-05-19
PRIOR FILING DATE: 2000-05-19
PRIOR PILING DATE: 2000-03-07
PRIOR PILING DATE: 2000-03-07

2002-09-06

FILING DATE:

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US-10-291-72-647

is Sequence 647, Application US/10291172

is Sequence 647, Application US/10291172

is Sequence 647, Application No. US20030228584A1

is GENERAL INFORMATION:

is TILE APPLICANT: Hyder, Inc.

is TILE REFERENCE: 21272-045

is CURRENT FILING DATE: 2000-11-08

is PRIOR APPLICATION NUMBER: 09/693,267

is PRIOR FILING DATE: 2000-09-19

is PRIOR FILING DATE: 2000-09-19

is PRIOR FILING DATE: 2000-07-14

is PRIOR FILING DATE: 2000-07-14

is PRIOR FILING DATE: 2000-06-17

is PRIOR FILING DATE: 2000-05-19

is PRIOR FILING DATE: 2000-05-
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                                                                                                                                           Length 143;
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74.4%; Score 29; DB 15; Length 14
Best Local Similarity 100.0%; Pred. No. 3.9e+06;
Matches 5; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                 Indels
                                                                                                                                 Query Match
74.4%; Score 29; DB 12; L
Best Local Similarity 100.0%; Pred. No. 3.9e+02;
Matches 5; Conservative 0; Mismatches 0;
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US-10-424-599-262285
; Sequence 262285.
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
ORGANISM: Homo sapiens
US-10-221-278-647
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US-10-291-172-647
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US-10-44

US-10-424-599-215145

is Sequence 215145, Application US/10424599

is Sequence 215145. Application US/10424599

is Publication No. US20040031072A1

is Publicant: Experiment of thomas J

APPLICANT: La Rosa Thomas J

APPLICANT: Acoustic David K

APPLICANT: Acoustic David K

APPLICANT: Cao Yongwei

TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With

TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

FILE REFERENCE: 38-21 (53223) B

CURRENT FILING DATE: 2003-04-28

NUMBER OF SEQ ID NOS: 285684

is SEQ ID NO 215145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 222247, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
Cao Yongwei
TITLE OF INVENTION:
TITLE OF INVENTION:
FILE REFERENCE:
38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT APPLICATION NUMBER: US/10/424,599
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 222247
MAPPLICATION
MAPPLICATION
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 222247
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                                                                                                                                                                                                                                                                                     Length 55;
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US-10-424-599-222247
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COTHER INFORMATION: Clone ID: PAT_MRT3847_36300C.1.pep

US-10-424-599-215145
                                                                                                                                 ; OTHER INFORMATION: Clone ID: PAT_MRT3847_30100C.1.pep
US-10-424-599-208279
                                                                                                                                                                                                                                                                                Query Match 71.8%; Score 28; DB 12; Lu
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches 4; Conservative 2; Mismatches 1;
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Best Local Similarity 66.7
Matches 4; Conservative
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                   TYPE: PRT
ORGANISM: Glycine max
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ORGANISM: Glycine max
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38 LQHDGL 43
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US-10-424-599-222247
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US-10-424-599-208279
Sequence 208279, Application US/10424599
Sequence 208279, Application No. US20040031072A1
GENERAL INFORMATION:
PAPLICANT: La Rosa Thomas J
APPLICANT: Anou Yihua
APPLICANT: APPLICANT: Os Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21 (53223)
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 208279
LENGTH: 55
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GENERAL INFORMATION:
GENERAL OF INFORMATION NUMBER: US/09/864,408A
GENERAL APPLICATION NUMBER: US/026,690
FRIGH SPRICATION NUMBER: 2000-05-24
GENERAL OF SEQ ID NOS: 9068
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APPLICANT: Kovalic David K
APPLICANT: Zhou Yihua
APPLICANT: Cao Yihua
APPLICANT: Cao Yongwei
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REPERENCE: 38 21 (53.23.)8
FURRENT APPLICATION NUMBER: US/10/424,599
NUMBER OF SEQ ID NOS: 285684
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 262285
LENGTH: 49
TYPE: PRT
ORGANIEM: Glycine max
PRETURE: PRETURE: Can Not ID IT IN NOT NUMBER OF SECOND NUM
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US-10-424-599-262285
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Best Local Similarity 66.7
Matches 4, Conservative
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CRGANISM: Homo sapiens
US-09-864-408A-116
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US-09-864-408A-116
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RESULT 45
US-10-424-599-216092
is sequence 216092, Application US/10424599
is sequence 216092, Application US/2040031072A1
is Publication No. US20040031072A1
is GENERAL INFORMATION.
APPLICANT: La Rosa Thomas J
APPLICANT: Acoustic David K
APPLICANT: Cac Yongwel
TITLE OF INVENTION: SOY Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
i SEQ ID NO 216092
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ORGANISM: Glycine max
PEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_37160C.1.pep
US-10-424-599-216092
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Query Match
Pest Local Similarity 66.7%; Pred. No. 2.9e+02;
Matches 4; Conservative 2; Mismatches 0; Indels

Search completed: June 15, 2004, 12:27:25 Job time : 43 secs

2 EHDGIN 7 | | | | | : : 35 EHDGLD 40

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version	- 2004
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OM protein - protein search, using sw model

June 15, 2004, 12:22:52; Search time 21 Seconds (without alignments) 32.064 Million cell updates/sec Run on:

US-09-394-019C-212 39 1 LEHDGIN 7 Title: Perfect score: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

Total number of hits satisfying chosen parameters: 283366 seqs, 96191526 residues Searched:

Minimum DB seq length: 0 Maximum DB seq length: 150

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

PIR 78:*
1: pir1:*
2: pir2:*
3: pir3:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SIMMARIES

	Description	hypothetical prote	m3	conserved hypothet	cal	cyte			hypothetical prote	ц Т	B 14F	gar		딝		ᆰ	ed don	protein US420 - in	hypothetical prote		14 	ä	_	cal p	conserved hypothet		٠Ă	oxide di	YLL018	GLI-related finger
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Query Match
79.5%; Score 31; DB 1; Length 61;
Best Local Similarity 71.4%; Pred. No. 11;
Matches 5; Conservative 2; Mismatches 0; Indels

310 26 66.7 1101 2 A97623 32 26 66.7 112 2 AB2636 33 26 66.7 112 2 C95877 34 26 66.7 119 2 C95877 35 26 66.7 119 2 C95877 36 26 66.7 119 2 C95877 39 26 66.7 119 2 C95877 39 26 66.7 119 2 C95877 39 26 66.7 119 2 C95877 41 25 66.7 148 1 A69137 42 26 66.7 147 2 A54492 39 26 66.7 148 1 A69137 41 25 64.1 66 2 H86661 42 25 64.1 66 2 H86661 43 25 64.1 66 2 H86661 44 25 64.1 66 2 H86661 44 25 64.1 66 2 H86661 45 25 64.1 66 2 H86661 46 25 64.1 66 2 H86661 47 141 25 64.1 66 2 H86661 48 25 64.1 1999 48 25 64.1 66 2 H86661 49 25 64.1 1999 49 4 25 64.1 69 3 H86661 40 25 64.1 1999 40 25 64.1 69 3 H8661 40 25 64.1 1999 40 25 64.1 66 2 H86661 40 25 64.1 1999 40 25 64.1 66 2 H86661 40 25 64.1 1999 40 25 64.1 69 3 H8661 40 25 64.1 1999 40 25 64.1 66 2 H86661 40 25 64.1 1999 40 25 64.1 66 2 H86661 40 25 64.1 1999 40 25 64.1 66 2 H86661 40 25 64.1 1999 40 25 64.1 69 3 H86661 40 25 64.1 1999 40 25 64.1 69 3 H86661 40 25 64.1 1999 40 25 64.1 69 3 H86661 40 25 64.1 10 2 H86	hypothetical prote probable 60S ribos conserved hypothetical prote hypothetical prote pept protein - Aci lek protein - Bctr citrate utilizatio hemoglobin beta-II hypothetical prote hypothetical prote hypothetical prote metallothionein-li hypothetical prote hypothetical prote hypothetical prote metallothionein-li hypothetical prote hypothetical prote hypothetical prote hypothetical prote hypothetical prote hypothetical prote	pernix (strain K1) 0-Aug-1999 #text_change 20-Aug-1999 H.; Yamazaki, S.; Haikawa, Y.; Jin-no, K.; Takaheashi, T.; Tanaka, T.; Kudoh, Y.; Vamazaki, J.; Kaerobic hyper-thermophilic Crenarchaeon, Aeropyng; PMID:10382966 5105244; PIDN:BAA80924.1; PID:dl044710; PID:g510F 32; DB 2; Length 128; Matches 1; Indels 0; Gaps 0;	oli 11-Mar-1988 #text_change 16-Jul-1999 responsible for D-xylose uptake in Escherichia (18, PMID:3532033 17, PIDN:CAA27976.1, PID:g43318 mutants to recover from a decrease in D-xylose up
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hypothetical protein SSO1764 [imported] - Sulfolobus solfataricus C; Species: Sulfolobus solfataricus C; Species: Sulfolobus solfataricus C; Species: Sulfolobus solfataricus C; Species: Sulfolobus solfataricus C; Accession: F90337
R; She, Q.; Singh, R.K.; Confalonieri, F.; Zivanovic, Y.; Allard, G.; Awayez, M.J.; Chan-V Jong, I.; Jeffries, A.C.; Kozera, C.J.; Medina, N.; Peng, X.; Thi-Ngoc, H.P.; Redder, P. submitted to GenBank, April 2001
A; Description: Sulfolobus solfataricus complete genome.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cyclesion: B46078
R)Accession: B46078
R)Accession: B46078
A; Noji, S.; Koyama, E.; Taniguchi, S.; Takemura, R.; Copeland, D. Biol. Chem. 268, 7449-7457, 1993
A; Title: A novel class of murine POU gene predominantly expressed in central nervous syst A; Reference number: A46078; MUID: 93216691; PMID: 8463278
A; Accession: B46078
A; Accession: B46078
A; Accession: B46078
A; Residues: preliminary
A; Molecule type: mRNA
A; Residues: 1-44 oCKA
C; Superfamily: unassigned homeobox proteins; homeobox homology
C; Keywords: DNA binding; homeobox; nucleus; transcription regulation
R;Yayon, A.; Zimmer, Y.; Guo-Hong, S.; Avivi, A.; Yarden, Y.; Givol, D.
EMBO J. 11, 1885-1890, 1992
A;Title: A confirmed variable region confers ligand specificity on fibroblast growth factch approximate a confirmed variable region confers ligand specificity on fibroblast growth factch A;Reference number: $20961; MUID:92258398; PMID:1316275
A;Recession: S20961
A;Recession: preliminary
A;Recule type: mRNA
A;Residues: 1-64 <YAX>
C;Keywords: growth factor receptor
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A;Cross-references: GB:AE006641; NID:g13815007; PIDN:AAK41957.1; GSPDB:GN00155
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C;Species: Mus musculus (house mouse)
C;Date: 05-May-1995 #sequence_revision 05-May-1995 #text_change 15-Oct-1999
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100.0%; Pred. No. 78;
ive 0; Mismatches
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A,Accession: F90337
A,Status: preliminary
A,Molecule type: DNA
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Best Local Similarity
Matches 5; Conserv
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A;Gene: SSO1764
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                                                                                                                                                                                                                                                                                                                                                                             conserved hypothetical protein VC1487 [imported] - Vibrio cholerae (strain N16961 serogra
C;Species: Vibrio cholerae
C;Date: 18-Aug-2000 #sequence_revision 20-Aug-2000 #text_change 02-Feb-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Cross-references: GB:AE004226; GB:AE003852; NID:g9655979; PIDN:AAF94642.1; GSPDB:GN001
A;Experimental source: serogroup O1; strain N16961; biotype El Tor
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Cipate: 22-0ct-2001 #sequence_revision 22-0ct-2001 #text_change 22-0ct-2001
Cipate: 22-0ct-2001 #sequence_revision 22-0ct-2001 #text_change 22-0ct-2001
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Cipate: 23-0ct-2001
Cipate: 23-0ct-200
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1, R.R.; Mekalanos, J.J.; Venter, J.C.; Fraser, C.M.
1, A.Ture 406, 477-483, 2000
A;Title: DNA Sequence of both chromosomes of the cholera pathogen Vibrio cholerae.
A;Reference number: A82035; MUID:20406833; PMID:10952301
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C;Species: Mus musculus (house mouse)
C;Date: 22-Nov-1993 #sequence_revision 10-Nov-1995 #text_change 30-May-1997
C;Accession: S20961
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Pred. No. 24;
2; Mismatches 0; Indels
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76.9%; 71.4%;

C;Genetics: A;Gene: VC1487 A;Map position: 1

A Status: preliminary A Molecule type: DNA A; Residues: 1-80 <HEI>

A; Accession: H82194

C, Accession: H82194

71 LKHNGIN 77

g

1 LEHDGIN 7

Query Match
Best Local Similarity 71.4
Matches 5; Conservative

1-114 <KUR>

A; Residues: Genetics:

C;Genetics: A;Gene: glnQ-truncation

LAHDGMN 53

1 LEHDGIN 7

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96 VEHDDVN 102
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A;Genome: plasmid
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                           hypothetical protein jhp0185 - Helicobacter pylori (strain J99)
CiSpecies: Helicobacter pylori
A;Variety: strain J99
A;Variety: strain J99
Cjace: 12-Feb-1999 #sequence_revision 12-Feb-1999 #text_change 08-Oct-1999
CjAccession: F71964
R;Alm, R.A.; Ling, L.S.L.; Moir, D.T.; King, B.L.; Brown, E.D.; Doig, P.C.; Smith, D.R.; Taves, C.; Gibson, R.; Merberg, D.; Mills, S.D.; Jiang, Q.; Taylor, D.E.; Vovis, G.F.; Altie: Genomic sequence comparison of two unrelated isolates of the human gastric path A;Reference number: A71800; MUID: 99120557; PMID: 9923682
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A;Molecule type: DNA
A;Residues: 1-118 <ARN>
A;Cross-references: GB:AE001456; GB:AE001439; NID:g4154689; PIDN:AAD05757.1; PID:g415468
A;Experimental source: strain J99
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hypothetical protein HP0199 - Helicobacter pylori (strain 26695)
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Pred. No. 1e+02;
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66.7%;
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Best Local Similarity 66.7
Matches 4; Conservative
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Best Local Similarity
Matches 4; Conserv
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LEHEGV 23
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18 LEHEGV 23
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ERAD42
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A, Residues: 1-148 - KUR.
A, Residues: 1-148 - KUR.
A, Experimental source: strain 1021, megaplasmid pSymB
A, Experimental source: strain 1021, megaplasmid pSymB
A, Experimental source: strain 1021, megaplasmid pSymB
R, Galibert, F.; Finan, T.M.; Long, S.R.; Puhler, A.; Abola, P.; Ampe, F.; Barloy-Hubler, R, Galibert, F.; Finan, T.M.; Long, S.R.; Puhler, A.; Federspiel, N.A.; Fisher, R.F.;
L.; Hyman, R.W.; Jones, T.
Science 293, 668-672, 2001
Science 293, 668-672, 2001
A; Atther Rahn, D.; Kahn, M.L.; Kalman, S.; Keating, D.H.; Kiss, E.; Komp, C.; Lelaure, hebault, P.; Vandenbol, M.; Vorholter, F.J.; Weidner, S.; Wells, D.H.; Wong, K.; Yeh, K.C.
A; Title: The composite genome of the legume symbiont Sinorhizobium meliloti.
A; Reference number: A96039; WulD:21368234; PMID:11474104
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                                                                                                                         Length 128;
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71.8%; Score 28; DB 2; L
Best Local Similarity 57.1%; Pred. No. 1.3e+02;
Matches 4; Conservative 2; Mismatches 1;
                                                                                                                         Score 28; DB 1; ]
Pred. No. 1.1e+02; 0; Mismatches 1
E3B 14K protein
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                                                                                                                              Query Match
Best Local Similarity 85.7%;
Matches 6; Conservative
C;Superfamily: adenovirus early C;Keywords: early protein
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cysted domain protein SP1053 [imported] - Streptococcus pneumoniae (strain TIGR4)
C;Species: Streptococcus pneumoniae
C;Date: 03-Aug-2001 #sequence_revision 03-Aug-2001 #text_change 03-Aug-2001
C;Date: 03-Aug-2001 #sequence_revision 03-Aug-2001 #text_change 03-Aug-2001
C;Date: 05-Aug-2001 #sequence_revision 03-Aug-2001 #text_change 03-Aug-2001
C;Date: 05-Aug-2001 #sequence_revision, T.P.; Bisen, J.A.; Read, T.D.; Peterson, S.; Heidé
On, J.D.; Umayam, L.A.; White, O.; Salzberg, S.L.; Lewis, M.R.; Radune, D.; Holtzapple, I.
Science 293, 496-506, 2001
A;Authors: Loftus, B.J.; Yang, F.; Smith, H.O.; Venter, J.C.; Dougherty, B.A.; Morrison,
A;Reference number: A95000; MUID:21357209; PMID:11463916
A;Accession: F95121
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-125 <KUR>
A;Cross-references: GB:AE005672; PIDN:AAK75167.1; PID:g14972527; GSPDB:GN00164; TIGR:SP46
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics: sibmitted to the EMBL Data Library, September 1996
A;Reference number: Z19354
A;Accession: T2093
A;Accession: T2093
A;Accession: T2093
A;Accession: T2093
A;Accession: DDBJ
A;Residues: DNA
A;Residues: 1-115 <WILL>
A;Cessereferences: EMBL:Z80344; PIDN:CAB02489.1; GSPDB:GN00020; CESP:F15D4.6
A;Experimental source: Clone F15D4 hypothetical protein F15D4.6 - Caenorhabditis elegans C;Species: Caenorhabditis elegans C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999 C;Accession: T20983 R;Swye, R. Length 114; Length 115; Length 125 Score 27; DB 2; Length Lineral Pred, No. 1.6e+02; 1; Indels 1; Indels Score 27; DB 2; I Pred. No. 1.6e+02; 1; Mismatches 1; Score 27; DB 2; I Pred. No. 1.7e+02; 2; Mismatches 1; protein US420 - infectious laryngotracheitis virus C/Species: infectious laryngotracheitis virus 69.2%; Query Match
Best Local Similarity 57.1%;
Matches 4; Conservative Query Match
Best Local Similarity 71.4%;
Matches 5; Conservative Query Match
Best Local Similarity 66.73
Matches 4; Conservative 77 MESDGVN 83 63 LENDGYN 69 1 LEHDGIN 7 1 LEHDGIN 7 ::|||| 50 MKHDGI 55 1 LEHDGI 6 A;Gene: CESP:F15D4.6 A;Map position: 2 A;Introns: 41/2; 82/1 RESULT 17 A48552 g 임 ò ద ઠે hypothetical protein BH1186 (imported) - Bacillus halodurans (strain C-125)

hypothetical protein BH1186 (imported) - Bacillus halodurans
C;Date: Sacillus halodurans
C;Date: O1-Dec-2000 #sequence_revision 01-Dec-2000 #text_change 15-Jun-2001
C;Accession: B83798
S;Takami, H.; Naksone, K.; Takaki, Y.; Maeno, G.; Sasaki, R.; Masui, N.; Fuji, F.; Hira
Nucleic Acids Res. 28, 4317-4331, 2000
A;Title: Complete genome sequence of the alkaliphilic bacterium Bacillus halodurans and
A;Reference number: A83650; MUID:20512582; PMID:11058132
A;Residues: preliminary
A;Molecule type: DNA
A;Residues: 1-114 <STO>
A;Cross-references: GB:AP001511; GB:BA000004; NID:g10173727; PIDN:BAB04905.1; GSPDB:GNOG
A;Genetics:
A;Gene: BH1186 A;Authors: Lauber, J.; Lazarevic, V.; Lee, S.M.; Levine, A.; Liu, H.; Masuda, S.; Maueel Y, M.; Ogawa, K.; Ogiwara, A.; Oudega, B.; Park, S.H.; Parro, V.; Pohl, T.M.; Portetelle Rieger, M.; Rivolta, C.; Rocha, E.; Roche, B.; Rose, M.; Sadaie, Y.; Sato, T.; Scanlon, A, Authors: Schledoh, S.; Schroceter, R.; Scoffone, F.; Sekfguchi, J.; Sekowska, A.; Seror akeuchi, M.; Tamakoshi, A.; Stanamoto, F.; Sekfguchi, J.; Sekowska, A.; Seror Akeuchi, M.; Tamakoshi, A.; Tanaka, P.; Vamane, K.; Yasumoto, K.; Yata, K.; Yoshida, M.; Althors: Yoshikawa, H.F.; Zumstein, E.; Yoshikawa, H.; Danchin, A. A.; Aritle: The complete genome sequence of the Gram-positive bacterium Bacillus subtilis. A.; Accession: B69225 hypothetical protein SCIC2.36 - Streptomyces coelicolor
C;Species: Streptomyces coelicolor
C;Species: Streptomyces coelicolor
C;Date: 22-Oct-1999 #sequence_revision 22-Oct-1999 #text_change 11-May-2000
C;Accession: T29085
R;Redenbach, M.; Kieser, H.M.; Denapaite, D.; Eichner, A.; Cullum, J.; Kinashi, H.; Hopw Mol. Microbiol. 21, 77-96, 1996
A;Title: A set of ordered cosmids and a detailed genetic and physical map for the 8 Mb S
A;Reference number: Z20556; MUID:97000351; PMID:8843436 A;Cross-references: GB:299114; GB:AL009126; NID:g2634230; PIDN:CAB13912.1; PID:e1185492; A;Experimental source: strain 168 C;Genetics: ö ô A;Accession: T29085
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Nolecule type: DNA
A;Nolecule type: DNA
A;Residues: 1-76 < RED>
A;Cross-references: EMBL:AL031124; NID:e1312893; PID:e1312929; PIDN:CAA20003.1 Gaps Gaps . 0 ; 0 A; Status: nucleic acid sequence not shown; translation not shown A; Molecule type: DNA A; Residues: 1-70 <KUN> Query Match 69.2%; Score 27; DB 2; Length 76; Best Local Similarity 80.0%; Pred. No. 99; Matches 4; Conservative 1; Mismatches 0; Indels Length 70 1; Indels 7 Score 27; DB 2 Pred. No. 90; 1; Mismatches Query Match
Best Local Similarity 71.4%;
Matches 5; Conservative LEHLGLN 63 1 LEHDGIN 7 1 LEHDG 5 1 MEHDG 5 A, Note: SC1C2.36 Genetics: RESULT 13 T29085

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A;Gene: ogt; Cj0836
C;Keywords: methyltransferase
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102 MESDGVN 108
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142 LENEGVN 148
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A; Status: preliminary
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C;Date: 17-Feb-1994 #sequence_revision 17-Feb-1994 #text_change 08-Oct-1999
C;Accession: A48552
C;Accession: A48552
Virus Genes 6, 365-378, 1992
A;Title: Sequence determination and genetic content of an 8.9-kb restriction fragment in A;Reference number: A48552; MUD:93118245; PMID:1282282
A;Accession: A48552; MUD:93118245; PMID:1282282
A;Accession: A48552
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A;Accessi
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Cipate: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 03-Dec-1999
Cipate: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 03-Dec-1999
Rigeisel, C.
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Cypecies: Clostridium acctobutylicum
Cypecies: Clostridium acctobutylicum
Cypecies: 14-Sep-2001 #sequence_revision 14-Sep-2001 #text_change 14-Sep-2001
CyAccession: F97328
RyNolling, J.; Bennett, G.; Cmelchenko, M.V.; Markarova, K.S.; Zeng, Q.; Gibson, R.; Lee,
J. Dally, M.J.; Bennett, G.N.; Koonin, E.V.; Smith, D.R.
Bacteriol: 183, 4823-4838, 2001
A;Title: Genome Sequence and Comparative Analysis of the Solvent-Producing Bacterium Clo
A;Reference number: A96900; MulD:21359325; PMID:21359325
A;Accession: F9728
A;Accession: preliminary
A;Molecule type: DNA
A;Residues: 1-145 <KUR>
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A;Experimental source: Clostridium acetobutylicum ATCC824
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A;Gene: CESP:F12A10.5
A;Introns: 30/3; 56/1; 87/3; 137/1
C;Superfamily: calmodulin; calmodulin repeat homology
C;Keywords: EF hand
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Best Local Similarity 71.4
Matches 5; Conservative
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methylated-DNA-[protein]-cysteine S-methyltransferase (BC 2.1.1.63) Cj0836 [imported] - (CjSpecies: Campylobacter jejuni
CjSpecies: Campylobacter jejuni
CjSpecies: Campylobacter jejuni
CjAccession: D31356
R;Parkhill, J.; Wren, B.W.; Mungall, K.; Ketley, J.M.; Churcher, C.; Basham, D.; Chilling
C.W.; Quail, M.; Rajandream, M.A.; Rutherford, K.M.; VanVliet, A.; Whitehead, S.; Barrell
Nature 403, 665-668, 2000
A;ritle: The genome sequence of the food-borne pathogen Campylobacter jejuni reveals hype
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A,Residues: 1-150 cPAR-
A,Cross-references: GB:AL139076; GB:AL111168; NID:G6968128; PIDN:CAB73101.1; PID:g696828;
A,Experimental source: serotype O2, strain NCTC 11168
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R;Hoskins, J.A.; Alborn Jr., W.; Arnold, J.; Blaszczak, L.; Burgett, S.; DeHoff, B.S.; Es e, R.; LeBlanc, D.J.; Lee, L.N.; Lefkowitz, E.J.; Lu, J.; Matsushima, P.; McAhren, S.; Mc y.; P.; Sun, P.M.; Winkler, M.E.
J. Bacteriol. 183, 5709-5717, 2001
A;Authors: Yang, Y.; Young-Bellido, M.; Zhao, G.; Zook, C.; Baltz, R.H.; Jaskunas, S.R.; A;Accession: B97991
A;Accession: B97991
A;Status: preliminary
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A;Residues: 1-150 <KUR>
A;Crose-references: GB:AE007317; PIDN:AAK99758.1; PID:g15458564; GSPDB:GN00174
C;Genetics:
                                                                                                                                                                                                                                                                                                                                                                                    hypothetical protein spr0954 [imported] - Streptococcus pneumoniae (strain R6)
C,Species: Streptococcus pneumoniae
C,Date: 22-Oct-2001 #sequence_revision 22-Oct-2001 #text_change 22-Oct-2001
                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
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A11911
30S ribosomal protein S21 [imported] - Nostoc sp. (strain PCC 7120)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 69.2%; Score 27; DB 2; Length 150; Best Local Similarity 57.1%; Pred. No. 2.2e+02; Matches 4; Conservative 2; Mismatches 1; Indels
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69.2%; Score 27; DB 2; Length 150;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches 4; Conservative 3; Mismatches 0; Indels
Length 145;
h Similarity 69.2%; Score 27; DB 2; Length 145 Similarity 66.7%; Pred. No. 2.1e+02; 4; Conservative 2; Mismatches 0; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                66.7%; Score 26; DB 2; Length 88;
80.0%; Pred. No. 1.9e+02;
rative 1; Mismatches 0; Indels
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C;Superfamily: uncharacterized conserved protein ssr2962
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Best Local Similarity 80...
Best A; Conservative
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9 VEHDG 13
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C;Species: Mycobacterium leprae
C;Accession: H8691
R;Cole, S.T.; Eiglmeier, K.; Parkhill, J.; James, K.D.; Thomson, N.R.; Mheeler, P.R.; HC
R; Davies, R.M.; Devlin, K.; Duthoy, S.; Feltwell, T.; Fraser, A.; Hamlin, N.; Holroyd,
eam. M.A.; Rutter, S.; Seeger, K.; Simon, S.; Simmonds, M.; Skelton, J.; Squares, R.; A;Authors: Rutter, S.; Seeger, K.; Simon, S.; Simmonds, M.; Skelton, J.; Squares, R.; A;Accession: H8691
A;Accession: H8691
A;Accession: H8691
A;Catus: preliminary
A;Molecule cype: DNA
A;Residues: 1-83 <STO>
A;Canetics: 1-83 <STO>
A;Cenetics: A;Genetics: A;
C;Species: Nostoc sp. PCC 7120
A;Note: Nostoc sp. strain PCC 7120
C;Date: 14-Dec-2001 #sequence_revision 14-Dec-2001 #text_change 09-Dec-2002
C;Accession: Al1911
R;Kaneko, T.; Nakamura, Y.; Wolk, C.P.; Kuritz, T.; Sasamoto, S.; Watanabe, A.; Iriguchi Nakazaki, N.; Shimpo, S.; Sugimoto, M.; Takazawa, M.; Yamada, M.; Yasuda, M.; Tabata, SDN Res. 8, 205-213, 2001
A;Title: Complete Genomic Sequence of the Filamentous Nitrogen-fixing Cyanobacterium Ana A;Reference number: AB1807; MUID:21595285; PMID:11759840
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ster, E.W.
A.Title: The Genome of the Natural Genetic Engineer Agrobacterium tumefaciens CS8.
A.Reference number: AB2577; MUID:21608550; PMID:11743193
A.Accession: AH2845
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A; Molecule type: DNA
A; Molecule type: DNA
A; Residues: 1-58 cKUR>
A; Residues: 1-58 cKUR>
A; Coss-references: GB: BA000019; PIDN: BAB72800.1; PID: g17130188; GSPDB: GN00179
A; Experimental source: strain PCC 7120
C; Genetics:
C; Genetics:
C; Superfamily: Escherichia coli ribosomal protein S21
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Pred. No. 1.8e+02;
3; Mismatches 0; Indels
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Best Local Similarity
Matches 3; Conserv
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EHEGID 13
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DHDGVD 31
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conserved hypothetical procein XF2030 [imported] - Xylella fastidiosa (strain 9a5c)
C;Species: Xylella fastidiosa
C;Species: Mayone
R;Sanonymous, The Xylella fastidiosa Consortium of the Organization for Nucleotide Sequent
Nature 406, 15-157, 2000
A;Title: The genome sequence of the plant pathogan Xylella fastidiosa.
A;Reference number: A88515; MUD:20365717; PMTD:10910347
A;Note: for a complete list of authors see reference number A59328 below
A;Accession: HEZ607
A;Status: preliminary
A;Molecule type: DNA
A;Residues: L93 < SRIP
A;Residues: L93 < SRIP
A;Reperimental source: strain 9a5c
R;Simpson, A.J.G.; Reinach, F.C.; Arruda, P.; Abreu, F.A.; Acencio, M.; Alvarenga, R.; Assubmitted to GenBank, Ular. Camargo, A.A.; Camargo, L.E.A.; Carraro, D.M.; Carrer, H.
Briones, M.R.S.; Bueno, M.R.P.; Camargo, A.A.; Camargo, L.E.A.; Carraro, D.M.; Carrer, H.
Ss.; Bueno, M.R. P.; Camargo, A.A.; Franca, S.C.; Franca, S.C.; Franco, M.C.; Frohmer, C.; Bl.Dorry, H.; Facinceni, A.D.; Franca, A.J.; Kitajima, J.P.; Franca, J.E.; Miyaki, C.Y.; Asuthors: Perreira. A.M.E.N.; Mactukuma, A.Y.; Marino, C.L.; Marchara, R.C.; Miyaki, C.A.; Aluthors: Marina, E.M.P.; Mactukuma, A.Y.; Marino, C.L.; Miyaki, C.Y.; F.G.; Munes, L.R.; Olivara, M.A.; de Olivara, A.M.; Ma.; de Olivara, A.M.; de Olivara, A.M.; de Silva, A.M.; Silva d. S.; Vettore, A.L.; Zawasaki
A; Atthors: as Silva, A.C. & M; de Salva, F.R.; da Silva, A.M.; Silva d. S.; Vettore, A.L.; Zawasaki
A; Atthors: annotation
C; Sections d. Silva, A.C. & Silva, A.M.; Silva, A.C.; Zawasaki
A; Acthors: Assaza
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[imported] - Nostoc sp. (etrain PCC 7120)
C;Species: Nostoc sp. PCC 7120
C;Species: Nostoc sp. PCC 7120
C;Anote: Nostoc sp. Btrain PCC 7120 is a synonym of Anabaena sp. strain PCC 7120
C;Accession: AB2059
C;Accession: AB2059
R;Kaneko, T.; Nakamura, Y.; Wolk, C.P.; Kuritz, T.; Sasamoto, S.; Watanabe, A.; Iriguchi, Nakazaki, N.; Shimpo, S.; Sugimoto, M.; Takazawa, M.; Yamada, M.; Yasuda, M.; Tabata, S. DNA Res. 9, 205-213, 2001
A;Title: Complete Genomic Sequence of the Filamentous Nitrogen-fixing Cyanobacterium Analanabacterium Analan
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A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-80 «KUR»
A;Residues: 1-80 «KUR»
A;Cross-reces: GB:AE008688; PIDN:AAL43182.1; PID:g17740662; GSPDB:GN00186
A;Experimental source: strain C58 (Dupont)
C;Genetics:
A;Gene: Atu2193
A;Map position: circular chromosome
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Gaps ö

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hypothetical protein AGR C_3987 [imported] - Agrobacterium tumefaciens (strain C58, Cerec Species: Agrobacterium tumefaciens () Species: Agrobacterium tumefaciens () Species: 30.5ep-2001 #sequence_revision 30.5ep-2001 #text_change 18-Nov-2002 C, Accession: A97623 Hinkle, G.; Mattung, S.; Miller, N.; Blanchard, M.; Qurollo, B.; Goldman, R.; Goodner, B.; Hinkle, G.; Allinger, M.; Doughty, D.; Scott, C.; Lappas, C.; Markelz, B.; Science 294, 2323-2328, 2001 Asiance of the Plant Pathogen and Biotechnology Agent Agrobacterium tumefairless of number: A97359; MUID:21608551; PMID:11743194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cispecies: Homo sapiens (man)
Cispecies: Homo sapiens (man)
Cipate: 31-Mar-1990 #sequence_revision 31-Mar-1990 #text_change 31-Dec-1993
Cipate: 31-Mar-1990 #sequence_revision 31-Mar-1990 #text_change 31-Dec-1993
Cipate: 31-Mar-1990 #sequence_revision 31-Mar-1990 #text_change 31-Dec-1993
Richappert, J.M.; Kinzler, K.W.; Wong, A.J.; Bigner, S.H.; Kao, F.T.; Law, M.L.; Seuanez, A.Title: The Gil-Kruppel family of human genes.
A:Reference number: A93103; MUID:89096896; PMID:2850480
A:Residues: 1.100 - RUP>
A:Residues: 1-100 - RUP>
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                                                                                                                                                                            Length 98
                                                                                                                                                                                                                             0; Indels
                                                                                                                                                                       Query Match
66.7%; Score 26; DB 2; I
Best Local Similarity 80.0%; Pred. No. 2.2e+02;
Matches 4; Conservative 1; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                          A31201
GLI-related finger protein GLI2 - human (fragment)
A;Molecule type: DNA
A;Residues: 1-98 <GOF>
A;Cross_references: EMBL:Z73125; MIPS:YLL018c-a
A;Experimental source: strain S288C
C;Genetics:
A;Map position: 12L
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A;Introns: 50/2
A;Uerfamily: gli transforming protein
C;Keywords: DNA binding; zinc finger
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A;Gene: AGR C 3987
A;Map position: circular chromosome
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Best Local Similarity 66./*
Best Local 4; Conservative
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A;Molecule type: DNA
A;Residues: 1-101 <KUR>
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22 VEHDG 26
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24 LDHDG 28
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A;Residues: 88-98 <LOY>
A;Cross-references: EMBL:X63626; NID:g38951; PIDN:CAA45174.1; PID:g1333704
A;Vote: this sequence was submitted to the EMBL Data Library, December 1991
A;Note: neither the complete nucleic acid sequence nor the complete translation are show
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; Description: catalyzes the dismutation of 2 molecules of peroxide radical to dioxygen C; Superfamily: superoxide dismutase (Cu-Zn)
C; Superfamily: superoxide dismutase (Cu-Zn)
C; Reywords: copper; metalloprotein, oxidoreductase; zinc
F; 18, 27, 36, 39/Binding site: zinc (His, His, His, His, Asp) #status predicted
F; 91/Active site: Arg #status predicted
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                                                                                                                         A,Cross-references: GB:BA000019; PIDN:BAB73723.1; PID:g17131115; GSPDB:GN00179 A;Experimental source: strain PCC 7120 C;Genetics: A;Gene: as12024
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Directin YLL018c-a - yeast (Saccharomyces cerevisiae)
C;Species: Saccharomyces cerevisiae
C;Species: Saccharomyces cerevisiae
C;Species: Jan.1999 #sequence_revision 15-Jan.1999 #text_change 15-Jan.1999
C;Accession: S7827
R;Goffeau, A.; Purnelle, B.
submitted to the Protein Sequence Database, May 1996
A;Reference number: S64761
A;Accession: S78727
A;Status: preliminary
                                                                                                                                                                                                                                                                                                              Gaps
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                                                                                                                                                                                                                                                        66.7%; Score 26; DB 2; Length 97; 71.4%; Pred. No. 2.18+02; tive 1; Mismatches 1; Indels
A,Reference number: AB1807, MUID:21595285, PMID:11759840
A;Accession: AB2059
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-97 <KUR>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 80.0
Matches 4; Conservative
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Best Local Similarity 71.4
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                 36 LEKEGIN 42
                                                                                                                                                                                                                                                                                                                                                              1 LEHDGIN 7
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S78727
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C;Accession: C95877
R;Finan, Tw.; Weidner, S.; Wong, K.; Buhrmester, J.; Chain, P.; Vorholter, F.J.; Hernand R;Finan, Tw.; Weidner, S.; Wong, K.; Buhrmester, J.; Chain, P.; Vorholter, F.J.; Hernand Proc. Natl. Acad. Sci. U.S.A. 98, 9889-9894, 2001
A;Title: The complete sequence of the 1,683-kb p5ymB megaplasmid from the N2-fixing endos A;Reference number: A95842; MUID:21396508; PMID:11481431
A;Accession: C95877
A;Accession: C95877
A;Status: preliminary
A;Residues: 1-119 ckUR
A;Residues: 1-119 ckUR
A;Residues: 1-119 ckUR
A;Residues: 1-119 ckUR
A;Residues: GB:AL591985; PIDN:CAC48683.1; PID:g15140155; GSPDB:GN00167
A;Residues: T.M.; Long, S.R.; Publer, A.; Abola, P.; Ampe, F.; Barloy-Hubler, R; Galibert, F.; Finan, T.M.; Long, S.R.; Publer, A.; Abola, P.; Raderspiel, N.A.; Fisher, R.F.; pela, D.; Chain, P.; Cowie, A.; Davis, R.W.; Dreano, S.; Federspiel, N.A.; Fisher, R.F.; L.; Hyman, R.W.; Jones, T.
B; Hyman, R.W.; Jones, T.
Science 2293, 668-672, 2001
A;Authors: Kahn, D.; Kahn, M.L.; Kalman, S.; Keating, D.H.; Kiss, E.; Komp, C.; Lelaure, Hebault, P.; Vandenboll, M.; Vorholter, F.J.; Weidner, S.; Wells, D.H.; Wong, K.; Yeh, K.C.
A;Title: The composite genome of the legume symbont Sinorhizobium mellioti.
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66.7%; Score 26; DB 2; Length 115
Best Local Similarity 80.0%; Pred. No. 2.7e+02;
Matches 4; Conservative 1; Mismatches 0; Indels
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C, Genetics:
A, Gene: SMb20293
A, Genome: plasmid
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9 VEHDG 13
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D87499
us-09-394-019C-212.rpr
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                                                                                                                                                                                                                                               Conserved hypothetical protein Atu0485 [imported] - Agrobacterium tumefaciens (strain C5 C; Species: Agrobacterium tumefaciens C5 C; Spacession: AB5636 Especies: AB5636 Especies: Agrobacterium to C; Kaul, R: Monks, D; Chen, L; Wood, G.E.; Chen, Y: Woo, I F8 Wood, D.W.; Setubal, V: Grant, C; Guenthner, D; Kutyavin, T.; Levy, R.; Li, M.; McClell Karp, P; Romero, P; Zhang, S. Science 294, 2317-2323, 2001.
A; Authors: Yoo, H.; Tao, Y.; Biddle, P.; Jung, M.; Krespan, W.; Perry, M.; Gordon-Kamm,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ster, E.W.
A/Itle: The Genome of the Natural Genetic Engineer Agrobacterium tumefaciens CS8.
A/Accession: AB2577; MUID:21608550; PMID:11743193
A/Accession: AB2636
A/Status: preliminary
A/MOlecule type: DNA
A/Readus: 1-117 <CRR>
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Best Local Similarity 80.0%; Pred. No. 2.5e+02;
Matches 4; Conservative 1; Mismatches 0; Indels
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C;Superfamily: rat ribosomal protein L30
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|:||| 11 HEGIN 15

HDGIN 7

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C;Genetics:

pepG protein - Acidianus ambivalens plasmid pDL10 C;Species: Acidianus ambivalens C;Species: 05-Mar-1999 #sequence_revision 05-Mar-1999 #text_change 20-Jun-2000 C;Accession: T00002 F;Kletzin, A. Submitted to the EMBL Data Library, January 1998 A;Rescription: The plasmid pDL10 from the extremely thermophilic archaeon Acidianus ambiv A;Reference number: Z14035 A;Accession: T00002 ö Gabs Length 130; 66.7%; Score 26; DB 2; 80.0%; Pred. No. 3e+02; ative 1; Mismatches Query Match
Best Local Similarity 80.0
Matches 4; Conservative |:||| 68 LDHDG 72 1 LEHDG 5 RESULT 35 T00002 ò g hypothetical protein [imported] - Sinorhizobium meliloti (strain 1021) magaplasmid pSymE C,Species: Sinorhizobium meliloti C,Date: 24-Aug-2001 #sequence_revision 24-Aug-2001 #text_change 30-Sep-2001

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A;Cross-references: GB:AE008688; PIDN:AAL41504.1; PID:g17738832; GSPDB:GN00186 A;Experimental source: strain C58 (Dupont)

A,Map position: circular chromosome C,Superfamily: Mycobacterium tuberculosis hypothetical protein Rv2705c

A; Gene: Atu0485

Query Match 66.7%; Score 26; DB 2; Length 117; Best Local Similarity 80.0%; Pred. No. 2.7e+02; Matches 4; Conservative 1; Mismatches 0; Indels

105 LDHDG 109

RESULT 33

1 LEHDG 5

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hypothetical protein MTH291 - Methanobacterium thermoautotrophicum (strain Delta H)
C'Species: Methanobacterium thermoautotrophicum
C'SAccession: A69137
R'Smith, D.R.; Doucette-Stamm, L.A.; Deloughery, C.; Lee, H.; Dubois, J.; Aldredge, T.; E'Smith, D.R.; Spadafora, R.; Vicaire, R.; Wang, Y.; Wierzbowski, J.; Gibson, R.; Jiwani, N.; Ki, S.; Church, G.M.; Daniels, C.J.; Mao, J.; Rice, P.; Noelling, J.; Reeve, J.N.
A, Thite: Complete genome sequence of Methanobacterium thermoautotrophicum Delta H: functifiant and Methanobacterium delta M: functifiant and M: fun
                                                                                                                                                                                                                                                                                                                                                                                              Cypecies: Xenopus laevis (African clawed frog Cypecies: Xenopus laevis (African clawed frog Cypecies: Xenopus laevis (African clawed frog) Cypecies: Xenopus laevis Xelin 1986 K. W.; Xenopus laevis R.; Xenopus laevis R.; Xenopus laevis R.; Xeference number: Af492; MUD: 87014375; PMID: 3020391 A; Xeference number: A54492; MUD: 87014375; PMID: 3020391 A; Xeference number: A197 ARX A; Xeference GB: MUD: 87014375; PMID: 870149653.1; PID: 9213962 B; Xeference number: A197 ARX A; Xeference number: A197 ARX A; Xeference number: A24119; MUD: 86067205; PMID: 2999708
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A,Cross-references: GA-RE000814; GB-AE000666; NID:g2621334; PIDN:AAB84797.1; PID:g262134; A,Experimental source: strain Delta H
C,Genetica:
C,Genetica:
C,Superfamily: hypothetical protein MTH291
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C; Superfamily: globin, globin homology
C; Superfamily: globin; globin, metalloprotein; oxygen carrier
C; Keywords: chromoprotein; heme, iron; metalloprotein; oxygen carrier
F; 4-147 / Domain: globin homology (GLBs)
F; 64 / Binding site: oxygen (His) (distal axial ligand) #status predicted
F; 93 / Binding site: heme iron (His) (proximal axial ligand) #status predicted
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         Gaps
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A, Residues: 2-17 <KNO.
A, FCPS-references: GB:X01142; NID:g64575; PIDN:CAA26914.1; PID:g64576
A, Note: initiator Met not shown
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66.7%; Score 26; DB 1; Length 148;
Best Local Similarity 80.0%; Pred. No. 3.5e+02;
Matches 4; Conservative 1; Mismatches 0; Indels
         Indels
         1;
         1; Mismatches
              4; Conservative
                                                                                                                                                                                          85 LINHDGL 90
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21 VEHDG 25
                                                                                               1 LEHDGI 6
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              Matches
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C;Species: Ectromelia virus
C;Species: Ectromelia virus
C;Species: O1-C0-1995 #sequence_revision 01-Dec-1995 #text_change 08-Oct-1999
C;Accession: C49276
R;Scnkevich, T.G.; Koonin, E.V.; Buller, R.M.L.
Virology 198, 118-128, 1994
A;Title: A poxvirus protein with a RING zinc finger motif is of crucial importance for A;Reference number: A49276; MUID:94082441; PMID:8259647
A;Accession: C49276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Citrate utilization determinant homolog A3R - Chlorella virus PBCV-1 C; Species: 15-Oct-1999 #text_change 29-Oct-1999 C; Accession: T17493; T18191 J.L. Submitted to the EMBL Data Library, May 1999 A; Reference number: Z18806 A; Accession: T17493 A; Catus: preliminary; translated from GB/EMBL/DDBJ A; Status: preliminary; translated from GB/EMBL/DDBJ A; Residues: 1-141 GRA> A; Cross-references: EMBL:U42580; NID:G4028896; PIDN:AAC96371.1 A; Accession: T18191 A; Status: preliminary; translated from GB/EMBL/DDBJ A; Residues: 1-141 GR2> A; Cross-references: EMBL:U42580; NID:G4028896; PIDN:AAC96990.1 A; Residues: 1-141 GR2> A; Cross-references: EMBL:U42580; NID:G4028896; PIDN:AAC96990.1 A; Experimental source: specific host Chlorella strain NC64A
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A;Molecule type: DNA
A;Residues: 1-138 <SEN>
A;Ctoss-references: GB:U01161; NID:g397978; PIDN:AAA16259.1; PID:g397981
C;Genetics:
A;Gene: p16
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A;Status: translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Rolecule type: DNA
A;Residues: 1-135 <KLE>
A;Cross-references: EMBL:AJ225333; PIDN:CAA12519.1
A;Experimental source: strain Leil0
C;Genetics:
A;Gene: ppG
A;Genome: plasmid pDL10
C;Superfamily: Acidianus ambivalens plasmid pDL10 pepG protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
66.7%; Score 26; DB 2; Length 135;
Best Local Similarity 71.4%; Pred. No. 3.18+02;
Matches 5; Conservative 1; Mismatches 1; Indels
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Pred. No. 3.3e+02;
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68 IEHLGDGIN 76
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Best Local Similarity
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A;Gene: A3R A;Note: A689L Genetics:

:||||| 71 DHDGI 75

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2 EHDGI 6

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Nypochetical protein NWA0321 [imported] - Neisseria meningitidis (strain Z2491 serogroup C;Species: Neisseria meningitidis
C;Date: 05-May-2000 #sequence_revision 05-May-2000 #text_change 02-Feb-2001
C;Date: 05-May-2000 #sequence_revision 05-May-2000 #text_change 02-Feb-2001
C;Accession: 082027
C;Accession: 082027
Nature 404, 502-506, 2000
A;Title: Complete DNA sequence of a serogroup A strain of Neisseria menigitidis Z2491.
A;Reference number: A81775; MUID:20222556; PMID:10761919
A;Accession: 082027
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-68 cPAR>
A;Cross_references: 0B;AL162752; 0B;AL157959; NID:97378778; PIDN:CAB83626.1; PID:9737907;
A;Genetics:
A;Specimental source: serogroup A, strain Z2491
C;Genetics:
A;Genetics:
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metallothionein-like protein AMT2 - apple tree
metallothionein-like protein AMT2 - apple tree
(Species: Malus domestica (apple tree)
(Species: Malus domestica (asple 
R; Bolotin, A.; Wincker, P.; Mauger, S.; Jaillon, O.; Malarme, K.; Weissenbach, J.; Ehrlid
                                     Genome Res. 11, 731-753, 2001
A; title: The complete genome sequence of the lactic acid bacterium Lactococcus lactis ss.
A; Reference number: A86625; MUID:21235186; PMID:11337471
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                                                                                                                                                                 A;Accession: H6661
A;Status: preliminary
A;Accession: H6661
A;Status: preliminary
A;Status: preliminary
A;Residues: 1-66 <270>
A;Cross-references: GB:Ab005176; PID:g12723159; PIDN:AAK04394.1; GSPDB:GN00146
A;Cross-references: etrain IL1403
C;Genetics:
A;Gene: ycjF
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64.1%; Score 25; DB 2; Length 66;
Best Local Similarity 100.0%; Pred. No. 2.38+02;
Matches 4; Conservative 0; Mismatches 0; Indels
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Pred. No. 2.3e+02;
1; Mismatches 0;
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Best Local Similarity 80.0%;

Matches 4; Conservative
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17 EFDGVN 22
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C;Species: Halobacterium sp. NRC-1
C;Species: Halobacterium sp. NRC-1
C;Date: 02-Feb-2001 #sequence_revision 02-Feb-2001 #text_change 02-Feb-2001
C;Accession: A84358
R;NG; W.V.; Kennedy, S.P.; Mahairas, G.G.; Berquist, B.; Pan, M.; Shukla, H.D.; Lasky, S.; Leithauser, B.; Keller, K.; Cruz, R.; Danson, M.J.; Hough, D.W.; Maddocks, D.G.; Jable Jung, W.V.; K.H.; Alam, W.; Fria.s. T.
Jung, K.H.; Alam, W.; Fria.s. T.; Proc. Natl. Acad. Sci. U.S.; Daniels, T. 12176-12181, 2000
A;Authors: Hou, S.; Daniels, C.J.; Dennis, P.P.; Omer, A.D.; Ebhardt, H.; Lowe, T.M.; Li A;Reference number: B4150, MUID:20504483; PMID:11016950
A;Reference number: A84158
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-61 <STO>
A;Cross-references: GB:AE004437; NID:g10581498; PIDN:AAG20229.1; GSPDB:GN00138
C;Genetics:
A;Gene: VNG2081H
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Cyaccesion: C70763
Ricole, S.T.; Brosch, R.; Parkhill, J.; Garnier, T.; Churcher, C.; Harris, D.; Gordon, S.; Rocole, S.T.; Brosch, R.; Pelvelin, K.; Feltwell, T.; Gentles, S.; Hamin, M.; Holroyd, S.; Combor, R.; Davies, R.; Davies, R.; Pelvelin, T.; Gentles, S.; Hamin, M.; Holroyd, S. Rajandream, M.A.; Rogers, J.; Rutter, S.; Seeger, K.; Skelton, S.; Squares, S. Mauture 339, 537–544, 1988
A.; Authors: Squares, R.; Sulson, J.E.; Taylor, K.; Whitehead, S.; Barrell, B.G. A; Title: Deciphering the biology of Mycobacterium tuberculosis from the complete genome A; Reference number: A70500; MUID:98295387; PMID:9634230
A; Reference number: A70500; MUID:98295387; PMID:9634230
A; Residues: preliminary; nucleic acid sequence not shown; translation not shown A; Residues: 1-148 < COL>
A; Cross-references: GB:Z74020; GB:AL123456; NID:G3261584; PIDN:CAA98333.1; PID:g1403484
A; Gene: Rv1558
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H86661
hypothetical protein ycjF [imported] - Lactococcus lactis subsp. lactis (strain IL1403)
C;Species: Lactococcus lactis subsp. lactis
C;Date: 23-Mar-2001 #sequence_revision 23-Mar-2001 #text_change 03-Aug-2001
C;Accession: H86661
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                                                                                                                                                                                                                                                                                                                                                                   hypothetical protein Rv1558 - Mycobacterium tuberculosis (strain H37RV)
C,Species: Mycobacterium tuberculosis
C,Date: 17-Jul-1998 #sequence_revision 17-Jul-1998 #text_change 20-Jun-2000
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100.0%; Pred. No. 2.1e+02;
tive 0; Mismatches 0; Indels
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:|||| 59 VEHDG 63 1 LEHDG 5

qq

Conservative

EHDG 36

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EHDG 5 N 33

Query Match Best Local Similarity Matches 4; Conserv

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Oy 2 BHDGI 6

| | | | | |

Db 21 KHDGI 25

RESULT 45

B90762

hypothetical protein ECs1066 [imported] - Escherichia coli (strain O157:H7, substrain C.55pecies: Bacherichia coli
C.5pecies: 18-Jul-2001 #secuence revision 18-Jul-2001 #text change 18-Jul-2001
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ô Gaps ô Query Match
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 4; Conservative 0; Mismatches 0; Indels

Search completed: June 15, 2004, 12:25:54 Job time : 22 secs

2 EHDG 5 |||| 65 EHDG 68

g

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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OM protein - protein search, using sw model

June 15, 2004, 12:22:52; Search time 11 Seconds (without alignments) 33.136 Million cell updates/sec Run on:

US-09-394-019C-212 39 1 LEHDGIN 7 Title: Perfect score: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

141681 segs, 52070155 residues Searched: 30433 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 150

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

SwissProt_42:* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

	Description	escherichi			human ac	fowlpox	5103 marek's dis	Q8yyk5 anabaena sp	lsa3 arabidopsis	2133 xenopus lae	mycob	шива а			psilo		esche	bacillus s		Q8zvq3 pyrobaculum							escheric	vaccinia v	escherich	bacil	DOS t		pseudomo	
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Q97cx2 clostridium Q8vq71 bacillus li Q9pt99 dicentrarch P37098 caulobacter P42817 bacillus ca Q9x810 streptomyce P4479 hacemophilus P96673 bacillus su P21650 klebsiella O59936 erysiphe gr P35530 shigella fl Q55296 shigella so
RS6 CLOAB CMGC BACLI PYY DICLA PYY DICLA PRZ CAUCR GCAD BACCL FOLB STRCO FOLB STRCO FOLB STRCO MAKKF KLEPN RS12 ERYGR SPAK_SHIFL
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ALIGNMENTS

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Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     41 HDGVN 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3 HDGIN 7
CBI_TaxID=1049;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 4

B314 ADB02

AC P03249;
DT 21-JUL-1986
DT 21-JUL-1986
DT 21-JUL-1986
DT 21-JUL-1986
DT 15-MAR-2004
DE Barly E3B 14
OS Human adenov
OS Human adenov
OS WCBI_TaxIBES;
CO VITUSES;
CO VICES_Human
RA MEDLINE=119
RA MEDLINE=119
RA MEDLINE=119
RA BECIES=Human
RA MEDLINE=119
RA BECIES=Human
RA BECIES=10:
RA HOTTON T.H.,
RT 14,700-kilod
RT 14,700-kilod
RT 14,700-kilod
CC -1-FUNCTION
CC -1-FUNCTION
CC -1-FUNCTION
CC -1-FUNCTION
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRAIN=Japan;
MEDLINE=97358489; PubMed=9215585;
Zhang Y., Ohashi N., Lee E.H., Tamura A., Rikihisa Y.;
"Ehrlichia sennetsu groE operon and antigenic properties of the GroEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEMS Immunol. Med. Microbiol. 18:39-46(1997).
-!- FUNCTION: Binds to Cpn60 in the presence of Mg-ATP and suppresses the ATPase activity of the latter.
-!- SUBUNIT: Heptamer of 7 subunits arranged in a ring (By
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ;
                                                                                                                                                                                                                                                                                                                                                      Ehrlichia sennetsu.
Bacteria, Proteobacteria, Alphaproteobacteria, Rickettsiales,
Anaplasmataceae, Neorickettsia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Chromatium vinosum.
Bacteria; Proteobacteria; Gammaproteobacteria; Chromatiales;
Chromatiaceae; Allochromatium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              74.4%; Score 29; DB 1; Length 98; 65.7%; Pred. No. 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                similarity).
-!- SUBCELLULAR LOCATION: Cytoplasmic (By similarity).
-!- SIMILARITY: Belongs to the groES chaperonin family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 98 AA; 10621 MW; 4EE66F4E9D7A0CA8 CRC64;
                                                                                                                                                                                                                            28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
10 kDa chaperonin (Protein Cpn10) (groES protein)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HAMAP; MF 00580; -; 1.
InterPro; IPR001476; Chaprnin_Cpn10.
PFam; PR00166; cpn10, 1.
PRINTS; PR00297; CHAPERONIN10.
PRODOM; P0000566; Chaprnin_Cpn10; 1.
PROSITE; PS00681; CHAPERONINS_CPN10; FALSE_NEG.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Intracellular sulfur oxidation protein darB.
DSRE.
                                                                                                                                                                               98 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2; Mismatches
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HSSP; P05380; 1AON.
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Best Local Similarity 66.7
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STANDARD;
                                                                                                                                                                                  STANDARD;
                                     |:||||:
LQHDGIS 42
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76 VEHDGV 81
       1 LEHDGIN 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                    GROS OR GROES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 3
DSRE CHRVI
LD DSRE CRVI
AC 087836;
DT 16-OCT-2001
DT 16-OCT-2001
DT 28-FB-2003
DE INTRACELUIA
GN DSRE.
GN DSRE.
OC Chromatiacea
                                                                                                                                                                               CH10 EHRSE
032605;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                homolog.";
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MEDLINE=81198955; PubMed=6262722;
Herisse 7., Galtiert F.;
"Nucleotide sequence of the EcoRI E fragment of adenovirus 2 genome.";
Nucleotide Res. 9:1229-1240(1981).
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21-JUL-1986 (Rel. 01, Last sequence update)
21-JUL-1986 (Rel. 01, Last sequence update)
21-JUL-1986 (Rel. 01, Last annotation update)
Early E3B 14 kDa protein.
Human adenovirus type 2, and
Human adenovirus type 6.
Viruses; deDNA viruses, no RNA stage; Adenoviridae; Mastadenovirus.
NCBI_TAXID=10515, 10534;
SEQUENCE FROM N.A.
SEQUENCE FROM N.A.
SEQUENCE 7829 / DSM 180;
MEDLINE=98361034; PubMed=9695921;
Pott A.S., Dahl C.;
Fort A.S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               [2]
SPECIES=Human adenovirus type 6;
SPECIES=Human adenovirus type 6;
Reichmann H., Schaarschmidt E., Geisler B., Hausmann J., Ortmann Bauer U., Flunker G., Seidel W.;
Bauer U., Flunker G., Seidel W.;
Submitted (DEC-1997) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      group C
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J. Virol. 64:1250-1255(1990).
-!- PUNCTION: Protects virus-infected cells from TNF-induced cytolysis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           -!- SİMILARITY: TO EQUIVALENT PROTEIN IN OTHER ADENOVIRUSES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    74.4%; Score 29; DB 1; Length 130; 80.0%; Pred. No. 33; ative 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE-90156523; PubMed=2304142; Horton T.H., Tollefson A.E., Wold W.S.M., Gooding L.R.; "A protein serologically and functionally related to the 14,700-kilodalton protein is found in multiple adenovirus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            HAMAP; MF_00330; -; 1.
InterPro; IPR003787; DrsE.
Pfam; PF02635; DrsE; 1.
SEQUENCE 130 AA; 14588 MW; 1429B54A99211B94 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -!- SIMILARITY: Belongs to the UPF0163 (dsrE) family.
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IDENTIFICATION OF PROTEIN
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Mon Jun 21 15:44:54 2004

081.212-0210-425-20-80

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R21B ANASP
Q8YYK5;
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                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                              Fowlpox virus (FPV).
Viruses; dsDNA viruses, no RNA stage; Poxviridae; Chordopoxvirinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDILINE=20193820; PubMed=10729156; Afonso C.L., Tulman E.R., Lu Z., Zsak L., Kutish G.F., Rock D.L.; Afonso C.L., Tulman E.R., Lu Z., Zsak L., Kutish G.F., Rock D.L.; The genome of fowlpox virus."; J. Virol. 74:3815-3831(2000).
-!- SIMILARITY: BELONGS TO THE POXVIRUSES F15 FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  71.8%; Score 28; DB 1; Length 148; 66.7%; Pred. No. 63; ive 2; Mismatches 0; Indels
                                                                                                                                                                                              71.8%; Score 28; DB 1; Length 128; 85.7%; Pred. No. 54; tive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           InterPro; IPR007675; Pox_F15.
Pfam; PF04596; Pox_F15; T.
PREF; PRSF015694; VAC_F15L; 1.
SEQUENCE 148 AA; 17723 MW; 492BOCB93D66B02A CRC64;
                                                                                                                                                                         128 AA; 14738 MW; 09882D90B253F146 CRC64;
                                                                                                                                                                                                                                                                                                                                        09585;
16-007-2001 (Rel. 40, Created)
16-007-2001 (Rel. 40, Last sequence update)
Protein FPV105.
                                                                                                   EMBL, J01917; -; NOT ANNOTATED_CDS.
EMBL, Y16037; CAA75994.1; -.
PIR; A03818; ERAD42.
                                                                                                                             PIR; A03818; ERAD42.
InterPro; IPR004985; Adeno_E3_153.
Pfam; PF03307; Adeno_E3_15_3; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EMBL; AF198100; AAF44449.1; -.
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Best Local Similarity 85.7
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4; Conservative
                                                                                                                                                                                                                                                                                                                               STANDARD;
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Best Local Similarity
Matches 4; Conserv
                                                                                                                                                                                                                                                1 LEHDGIN 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                     Avipoxvirus.
NCBI_TaxID=10261;
                                                                                                                                                                 protein
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U420_HSVMG
ID _U420_HSVMG
                                                                                                                                                                                                                                                                                                                               FOWPV
                                                                                                                                                                Early prot
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "Sequence determination and genetic content of an 8.9-kb restriction fragment in the short unique region and the internal inverted repeat of Marek's disease virus type 1 DNA."; Virus Genes 6:365-378(1992).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EDGUENCE FROM N.A.

MEDLINE=2159528; PubMed=11759840; Xuritz T., Sasamoto S.,
Kaneko T., Nakamura Y., Wolk C.P., Kuritz T., Sasamoto S.,
Watanabe A., Iriguchi M., Ishikawa A., Kawashima K., Kimura T.,
Kishida Y., Kohara M., Matsumoto M., Matsuno A., Muraki A.,
Nakazaki N., Shimpo S., Sugimoto M., Takazawa M., Yamada M.,
Yasuda M., Tabata S.;
"Complete genomic sequence of the filamentous nitrogen-fixing
cyanobacterium Anabaena sp. strain PCC 7120.";
DNA Res. 8:205-213(2001).
--- SIMILARITY: Belongs to the S21P family of ribosomal proteins.
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                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
MEDLINE-93118245; PubMed=1282282;
Sakaguchi M., Urakawa T., Hirayama Y., Miki N., Yamamoto M.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 69.2%; Score 27; DB 1; Length 140; Best Local Similarity 71.4%; Pred. No. 98; Matches 5; Conservative 1; Mismatches 1; Indels
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28-FEB-2003 (Rel. 41, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
30S ribosomal protein S21 B.
RPSUZ OR RPS21 OR ASR0843.
Anabasen ap. (Grrain PCC 7120).
Bacteria; Cyanobacteria; Nostocales; Nostocaceae, Nostoc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            140 AA; 15496 MW; C3A73F42C3CA6545 CRC64;
                                                                                                                                                                                 Marek's disease herpesvirus (strain GA) (MDEV).
Viruses; dsDNA viruses, no RNA stage; Herpesviridae;
Alphaherpesvirinae; Marek's disease-like viruses.
NCBI_TaxID=10388;
01-PEB-1995 (Rel. 31, Created)
01-FEB-1995 (Rel. 31, Last sequence update)
01-FEB-1995 (Rel. 31, Last annotation update)
Hypothetical 15.5 kDa protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EMBL; M80595; AAB59889.1; -.
Hypothetical protein.
SEQUENCE 140 AA; 15496 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STANDARD;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
STRAIN=cv. Columbia;
MEDLINE=20277480; PubMed=10819329;
MEDLINE=20277480; PubMed=10819329;
Sato S., Nakamura Y., Kaneko T., Katch T., Asamizu E., Tabata S.;
Structural analysis of Arabidopsis thaliana chromosome 3. I.
Sequence features of the regions of 4,504,864 bp covered by sixty Pl and TAC clones.";
DNA Res. 7:131-135(2000).
                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Arabidopsis thaliana (Mouse-ear cress).

Eukaryota, Viridiplantae, Streptophyta, Embryophyta, Tracheophyta, Spermatophyta, Magnoliophyta, eudicotyledons, core eudicots, rosids, eurosids II, Brassicales, Brassicaceae, Arabidopsis.
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                                                                                                                                                                                                                          Score 26; DB 1; Length 58;
Pred. No. 60;
2; Mismatches 0; Indels
           EMBL, AP003583; BAB72800.1; -. HAMAP, MC 00358; BAB72800.1; -. HAMAP, MC 00358; BAB72800.1; -. HAMAP, MC 00358; I. HAMAP, MC 00358; I. HAMAP, MC 00358; I. HAMAP, MC 00358; RIBOSOMĀLS21. PRINTS, PROOPTS, RIBOSOMĀLS21. PRODEM, PROSTE, PROSEMB 121; I. TIGRFĀMS; TIGR00030; S21p; I. TIGRFĀMS; TIGRC0030; S21p; I. RIBOSOMAL S21; 1. RIBOSOMAL S21; 1. RIBOSOMAL S21; 1. RIBOSOMAL S22; I. SEQUENCE S8 AA; 6901 MW; 5BD5B2B6A93A9B4D CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    112 AA; 12279 MW; B1B2286ED2CC0549 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                               Q9LSA3;
28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Replace ribosomal protein L30.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         HSSF; P14120; iCN9.
InterPro; IPR004031; Ribosomal L30e.
InterPro; IPR004038; Ribosomal L7A.
Pfam; PP01248; Ribosomal L7Ae; 1.
ProDom; PD004495; Ribosomal L30e; 1.
PROSITE; PS00709; RIBOSCMAL L30E; 1.
PROSITE; PS00993; RIBOSCMAL L30E 2; 1.
Ribosomal protein.
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Similarity 66.7%;
4; Conservative
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Best Local Similarity
Matches 4; Conserv
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EHEGID 13
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Best Local
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Xenopus laevis (African clawed frog).

Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Amphibia, Batrachia, Anura, Mesobatrachia, Pipoidea, Pipidae,
Xenopodinae, Xenopus.

HBB2 XENLA STANDARD; PRT; 146 AA. P01133; P06644; 21-JUL-1986 (Rel. 01, Created) 01-APR-1988 (Rel. 07, Last sequence update) 16-CTT-2001 (Rel. 40, Last annotation update) Hemoglobin beta-2 chain (Minor) (Larval beta-II-globin) (B2G)

SEQUENCE FROM N.A.
MEDLINE-86067205; PubMed=2999708;
Knoechel W., Meyerhof W., Stalder J., Weber R.;
Knoechel W., Meyerhof W., Stalder J., Weber R.;
Comparative nucleotide sequence analysis of two types of larval beta-globin mRNAs of Kenopus laevis.";
Nucleic Acids Res. 13:7899-7908(1985).

W.; Xenopus

SEQUENCE FROM N.A. MEDILINE=87014375, WEDEL R., Knoechel Meyerhof W., Stalder J., Weber R., Knoechel Meyerhof W., Stalder J., Weber R., Knoechel "Sequence analysis of the larval beta II-globin gene of

laevis.";

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                                                                                                                                                                                                                                                                                                                     MOI. Biol. Rep. 11:155-161(1986).
-!- FUNCTION: Involved in oxygen transport from the lung to the various peripheral tissues.
-- SUBUNIT: Heterotetramer of two alpha chains and two beta chains.
-!- TISSUE SPECIFICITY: Red blood cells.
-!- SIMILARITY: Belongs to the globin family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 146;
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80.0%; Pred. No. 1.7e+02;
ive 1; Mismatches 0; Indels
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IRON (HEME PROXIMAL LIGANI
BB53347CA9BFFAEA CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EMBL; X03142; CAA26914.1; --
EMBL; M21411; AAA49653.1; --
PIR; A54492; A54492.
HSSP; W02100; LA9W.
InterPro; IPR002337; Beta haem.
InterPro; IPR00891; Globin.
PROSITE; PR00814; BETAHAEM.
PROSITE; PR0133; GLOBIN; 1.
Heme; Oxygen transport; Transport; Erythrocyte.
INIT MET 63 63 IRON (HEME DISTAL LIGG
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YF59_MYCTU
ID YF58_MYCTU STANDARD;
15 Q10772;
DT 01-OCT-1996 (Rel. 34, Created)
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SEQUENCE
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                                                                                                                                                                                                                        SEQUENCE FROM N.A.

SEQUENCE FROM N.A.

SPECIES=M. tuberculosis; STRAIN=H37Rv;

K GDE S.T., Brosch R., Parkhill J., Garnier T., Churcher C., Harris D.,

GOLGOS S.T., Biglmeeher K., Gas S., Barry C.E. III, Terkaia F.,

GORGOCK K., Basham D., Brewn D., Chillingworth T., Connor R.,

A Badcock K., Devlin K., Feltwell T., Gentles S., Hamlin N., Holroyd S.,

A Hornsby T., Jagels K., Krogh A., McLean J., Moule S., Murphy L.,

A Oliver S., Seeger K., Skelton S., Squares S., Squares R.,

A Sulston J.E., Taylor K., Whitehead S., Barrell B.G.;

A Sulston J.E., Taylor K., Whitehead S., Barrell B.G.;

T. Deciphering the biology of Mycobacterium tuberculosis from the complete genome sequence.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
SPECIES—M. tuberculosis; STRAIN=CDC 1551 / Oshkosh;
MEDLINE=22206494; PubMed=12218036;
MEDLINE=22206494; PubMed=12218036;
MEDLINE=22206494; PubMed=12218036;
MEDLINE=222066494; PubMed=12218036;
Peterson J., DeBoy R., Dodson R., Gwinn M., Haft D., Hickey E., Kolonay J.F., Nalson W.C., Umayam L.A., Ernolaeva M., Salzberg S.L., Blishai W., Jacobs W.R. Jr., Venter J.C., Fraser C.M.;
Blishai W., Jacobs W.R. Lr., Venter J.C., Fraser C.M.;
"Whole-genome comparison of Mycobacterium tuberculosis clinical and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
SPECIES=M.DOVIS; STARIN=AF2122/97;
SPECIES=M.DOVIS; STARIN=AF2122/97;
Garnier T., Eiglmeier K., Camus J.-C., Medina N., Mansoor H.,
Pryor M., Unthoy S., Grondin S., Lacroix C., Monsempe C., Simon S.,
Harris B., Atkin R., Doggett J., Mayes R., Keating L., Wheeler P.R.,
Parkhill J., Barrell B.G., Cole S.T., Gordon S.V., Hewinson R.G.;
"The complete genome sequence of Mycobacterium bovis.";
"The Complete genome sequence of Mycobacterium bovis.";
-: SIMILARITY: TO M.TUBERCULOSIS RV1261C.
                                                                                                                                                                                                                                                                                                                                                                  :
:
                                                                                                                               Bacteria, Actinobacteria, Actinobacteridae, Actinomycetales,
Corynebacterineae, Mycobacteriaceae, Mycobacterium.
NCBI_TaxID=1773, 1765;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 80.0%; Pred. No. 1.7e+02;
Matches 4; Conservative 1; Mismatches 0; Indels
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EMBL; AE007027; AAK45876.1; -.
EMBL; BAC48339; CAD96251.1; -.
EMBL; BAC48339; CAD96251.1; -.
FIGR; MT1609; -.
TUGR; MT1609; -.
TUGRCAMS; TOGR004378; Mtu_fam_11.
Pfam; PF04075; DUF385; 1-
TIGREAMS; TOGR00626; Mtu_fam_11; 1.
Hypothetical TOGR00626; Mtu_fam_11; 1.
Hypothetical AB AA; 16347 MW; A9F98E90398719B8 CRC64;
01-OCT-1996 (Rel. 34, Last sequence update)
10-OCT-2003 (Rel. 42, Last annotation update)
Hypothetical protein Rv1558/MT1609/Mb1584.
Rv1558 OR MT1609 OR MTCY48.07C OR MB1584.
Mycobacterium tuberculosis, and
Mycobacterium bovis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               laboratory strains.";
J. Bacteriol. 184:5479-5490(2002).
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Eukaryota, Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids;
eurosids I; Rosales; Rosaceae; Maloideae; Malus.

NCBI_TaxID=3750;
                                                                                                                              01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
10-CCT-2003 (Rel. 42, Last annotation update)
Metallothionein-like protein type 3 (MT-3).
Musa acuminata (Banana).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Zingiberales; Musaceae;
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Reid S.J., Ross G.S.;

"Up-regulation of two cDNA clones encoding metallothionein-like proteins in apple fruit during cool storage.";

Physiol. Plantarum 100:183-189 (1997).

-i- FUNCTION: Metallothioneins have a high content of cysteine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match

64.1%; Score 25; DB 1; Length 65;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 4; Conservative 0; Mismatches 0; Indels
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InterPro; IPR000347; Metallothion_15.
Pfam: PF01439; Metallothio_2; 1.
ProDom; PD001611; Metallothion_15; 1.
Metal-binding; Metal-thiolate cluster.
SEQUENCE 65 AA; 6774 MW; P456C0668AB4B577 CRC64;
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15-UUL-1998 (Rel. 36, Created)
15-UUL-1998 (Rel. 36, Last sequence update)
15-UUL-1998 (Rel. 42, Last annotation update)
Metallothionein-like protein type 3 (MT-3).
                                                                  65 AA
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                                                               MT3 MUSAC
Q40256;
RESULT 11
MT3_MUSAC
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                                                                                       This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMEL distration the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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   residues that bind various heavy metals.
-!- SIMILARITY: Belongs to the metallothionein superfamily; family 15.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STRAIN=Hector, TISSUE=Venom;
Manauelle P., Hassani O., Cestele S., Loret E.P., van Dorsselaer A.,
Rochat H., Sampleri F.;
Submitted (AUG-1997) to Swiss-Prot.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
15-WAR-2004 (Rel. 43, Last annotation update)
Neurotoxin-like protein STR1 (Anatoxin AaH STR1) (AaHSTR1),
Madroctonus auerralis (Sahara scorption).
Eukaryota; Metazoa; Arthropoda; Chelicerata; Arachnida; Scorpiones;
Buthoidea; Buthidae; Androctonus.
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17 40
26 45
30 47
66 AA, 7641 MW, D1B64B7C4E8467E3 CRC64;
                                                                                                                                                                                                                                                                                                                                EMBL; U61974; AAC23698.1; -.
PIR; T17015; T17015.
InterPro; IPR000347; Metallothion 15.
Probom; PD001611; Metallothion 15; 1.
Metal-binding; Metal-thiolate Cluster.
SEQUENCE 6 AA; 6930 MW; BFCF793C36FC036E CRC64;
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80.0%;
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Best Local Similarity
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This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the Buropean Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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                                                                                                                                                                                   Bukaryota, Viridiplantae, Streptophyta, Embryophyta, Tracheophyta,
Moniliformopses, Peilotophyta, Psilotales, Psilotaceae, Psilotum.
NCBI_TaxID=3240;
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83.3%; Pred. No. 1.4e+02;
ative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EMBL, AP004638; BAB84251.1; -.
HAMAP; MF 00075; -; 1.
InterPro; IPR003029; Nucleic_acid_OB.
InterPro; IPR004169; S1. IP1.
InterPro; IPR004169; S1. IP1.
InterPro; IPR004169; NI. IP1.
InterPro; IPR004169; NI. IP1.
InterPro; IPR004169; NI. IP1.
INTERPRO; S1. 1.
INGREMA; INGR00008; INFA; 1..
PROSITE; PRO$15; S1. INTERPRE; I..
PRO$1TE; PRO$15; S1. INTERPRE; I..
Initiation factor; ProteIn blosynthesis; Chloroplast.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DOMAIN 1 72 SI-LIKE.
SEQUENCE 80 AA; 9299 MW; CB632F174EACDB7D CRC64;
                                       28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Translation initiation factor IF-1, chloroplast
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (Rel. 38, Created)
(Rel. 38, Last sequence update)
(Rel. 41, Last annotation update)
                                                                                                                                                          Psilotum nudum (Whisk fern).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 83.33
Matches 5; Conservative
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STANDARD;
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043504;
15-JUL-1999 (
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28-FBB-2003 (
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ID XIP HU
AC 04350
DT 15-JU
DT 15-JU
DT 28-FEI
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us-09-394-019c-212.rsp

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SEQUENCE FROM N.A.
MEDLINE=90008773; PubMed=2507524;
Albano M., Breitling R., Dubmau D.A.;
"Nucleotide sequence and genetic organization of the Bacillus
subtilis comG operon.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ComG operon protein 6.

COMG operon protein 6.

COMG OR COMG OR BSU24680.

Bacillus subtilis.

Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus.
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EMBL, D90811; BAA15453.1; ---
EMBL, D90812; BAA15459.1; ---
FIR, D64926; D64926.
ECCGENE; EG11378; SufA.
InterPro; IPR000361; HesB yadR yfhF.
Prodom; P000218; HesB yadR yfhF.
Prodom; P0002183; HesB yadR yfhF; TIGREAMS; TIGRO0499; TIGREAMS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        subtilis comG operon.";
J. Bacteriol. 171:5386-5404(1989)
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STRAIN=168;
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Hepatitis B virus X interacting protein (HBX-interacting protein) (HBV X interacting protein).
HBXIP OR XIP.
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SEQUENCE FROM N.A.
STRAIN-RIA / MGISESS,
MEDLINE=97426617; PubMed=9278503;
Blattner F.R., Plunkett G. III, Bloch C.A., Perna N.T., Burland V.,
Blattner F.R., Plunkett G. III, Bloch C.A., Rode C.K., Maynew G.F.,
Gregor J., Davis N.W., Kirkpatrick H.A., Goeden M.A., Rose D.J.,
Mau B., Shao Y.;
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01-NOV-1997 (Rel. 35, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
SufA protein.
SufA OR Bi684.
Escherichia coli.
Bacteria: Proteobacteria; Gammaproteobacteria; Enterobacteriales;
Entercobacteriaceae; Escherichia.
                                                                                                                                                                                              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
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Pred. No. 1.6e+02;
1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A., AND MUTAGENESIS.
TISSUE=Liver;
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Best Local Similarity 80.0%:
Matches 4, Conservative
                                                                                                                                                               Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2 EHDGI 6
:||||
78 KHDGI 82
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SUFA ECOLI
ID SUFA ECOLI
AC P7767;
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MEDLIKE=97251357; PubNed=9097039;
Aiba H., Baba T., Fujita K., Hayashi K., Inada T., Isono K., Itoh T.,
Kasai H., Rashimoto K., Kimura S., Kitakawa M., Kitagawa M.,
Makino K., Miki T., Mizobuchi K., Mori H., Mori T., Motomura K.,
Nakade S., Nakamura Y., Nashimoto H., Nishio Y., Oshima T., Saito N.,
Sampei G., Seki Y., Sivasundaram S., Tagami H., Takeda J.,
Takeuchi Y., Wada C., Yamamoto Y., Horiuchi T.,
"A 570-kb DNA sequence of the Escherichia coli K-12 genome
corresponding to the 28.0-40.1 min region on the linkage map.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRAIN=KI2 / MG1655,
MEDLINE=9925565, PubMed=10322040;
MEDLINE=9925565, PubMed=10322040;
Patzer S.I., Hantke K.;
"Suff is a Nif5-like protein, and SufD is necessary for stability of the 2Fe-28 FubF protein in Escherichia coli.";
J. Bacteriol. 181:3307-3309(1999).
i- SIMILARITY: BELONGS TO THE HESB/YADR/YFHF FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 17
CMGF BACSU
AC PASSU
AC P25958; 032021; 22, Created)
DT 01-MAY-1992 (Rel. 22, Created)
DT 03-MAY-2000 (Rel. 39, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
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        Action No. 2004 19.34 1.7 Albertini A.M., Alloni G., Azevedo V., Bertero M.G., Bessieres P., Bolotin A., Borchert S., Baronster L., Brans A., Braun M., Brighell S.C., Bron S., Bruchiser L., Brans A., Braun M., Brighell S.C., Bron S., Bruchiser L., Brans A., Braun M., Brighell S.C., Bron S., Brouilet S., Bruschi C.V., Caldwell B., Capuano V., Carter N.M., Chois S.K., Codani J.J., Connerton I.F., Cummings N.J., Daniel R.A., Britts C., Fujita M., Fujita Y., Fuma S., Galizzi A., Galleron N., Fritz C., Fujita M., Fujita Y., Fuma S., Galizzi A., Galleron N., Guiseppi G., Guy B.J., Haga K., Halech J., Havood C.R., Henaut A., Hibert H., Holsappel S., Hosono S., Hullo M.F., Itaya M., Jones L., Jonis B., Karamata D., Kasahara Y., Klaert-Banchard M., Mellan G., Kobayashi Y., Koetter P., Koningstein G., Lauber J., Lazarevic V., Achisa M., Liu H., Masuda S., Mauel C., Medigue C., Medina N., Mellado R.P., Mizuno M., Mosett D., Nakai S., Kumano M., Noone D., O'Reilly M., Ogawa K., Ogiwara A., Oudega B., Park S.H., Resecan E., Pujic P., Purnelle B., Ropport G., Rey M., Reynolds S., Rieger M., Rivolta C., Rocha E., Roche B., Rose M., Sadaie Y., Racconi E., Pujic P., Purnelle B., Rapport G., Rey M., Reynolds S., Settouchi J., Sekwska A., Seror S.J., Serror P., Sonioni A., Tanakoshi A., Tanaka T., Tarkanashi H., Takemaru K., Yasumoto K., Yasumoto K., Yasumoto K., Yasumoto K., Yasumoto K., Yasumoto K., Yasumoto K., Yasumoto K., Yasumoto K., Yasumoto K., Yasumoto K., Yasumoto K., Yasumoto K., Yasumoto K., Yasumoto K., Yasumoto K., Yasumoto K., Yasumoto K., Yasumoto M., Wathiers P., Widata M., Pinakawa H.F., Zumstein E., Woshikawa H., Danchin A., Harber M., Pinakawa H.F., Zumstein E., Woshikawa H.P., Danchin A., Harber M., Wathiers P., Widat A., Yanamoto G. the Gram-positive bacterium Bacillus W., Wathiers P., Widat M., Yanakawa H.F., Zumstein E., Woshikawa M.S., Wanamoto W., Wannier M. Wan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=98389321; PubMed=9723928; MEDLINE=98389321; PubMed=9723928; Chung V.S., Breidt F., Dubnau D.A.; Chung V.S., Breidt F., Dubnau D.A.; required for localization and processing of the ComG proteins, required for DNA binding during transformation of Bacillus subtilis."; Mol. Microbiol. 29:985-913 (1998).
-!- FUNCTION: Required for transformation and DNA binding.
-!- SUBCELLULAR LOCATION: Membrane-associated.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE=98083053; PubMed=9422590; Chung Y.S., Dubnau D.A.; Mall seven comed open reading frames are required for DNA binding during transformation of competent Bacillus subtilis."; J. Bacteriol. 180:41-45(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Match 64.1%; Score 25; DB 1; Length 127; Local Similarity 100.0%; Pred. No. 2.4e+02; es 4; Conservative 0; Mismatches 0; Indels
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PIR; G69603; G69603.

Subtilist; BG10488; comGF.

Competence; Membrane; Complete proteome.

SEQUENCE 127 AA; 14281 MW; 6598AA28873AD84F CRC64;
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EMBL; Z99116; CAB14399.1; -.
MEDLINE=98044033; PubMed=9384377;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Nature 390:249-256(1997)
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SUBCELLULAR LOCATION
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RAY REDLINES-0722255; Fubrages 10761919;
RAY PERKHILL J., Achteman M., James K.D., Bentley S.D., Churcher C.,
RA Acries R.M., Davis P., Deviln K., Fellwend D., Chillingworth T.,
RA Jagels K., Leather S., Moule S., Mungall K., Quail M.A.,
Rajandream M.A., Rutherford K.M., Simmonds M., Skelton J.,
RA Mitchead S., Spratt B.G., Barrell B.G.;
RA Mintehead S., Spratt B.G., Barrell B.G.;
RAUTION: The glycine cleavage system catalyzes the degradation of Erom the grown or constants a covalently-bound lipoyl cofactor (By similarity).
C. :- SUMILARITY: Belongs to the gcvH family.
C. :- SIMILARITY: Belongs to the gcvH family.
C. :- SIMILARITY: Belongs to the gcvH family.
C. :- SIMILARITY: Belongs to the Swiss Institute of Bioinformatics and the EMBL outstation between the Swiss Institute of Bioinformatics and the EMBL outstation che European Bioinformatics as long as its content is in no way condities requires a license agreement (See http://www.isb-sib.ch/announce/created an email to license@isb-sib.ch).
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0
                                                                                                                                                                                            Neisseria meningitidis (serogroup A).
Bacteria; Proteobacteria; Betaproteobacteria; Neisseriales;
Neisseriaceae; Neisseria.
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SEQUENCE 128 AA; 13640 MW; 065F4ED8188D6C74 CRC64;
                                                          09JVP1;
16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
10-OCT-2003 (Rel. 42, Last annotation update)
Glycine cleavage system H protein.
GCVH OR NYA0759.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       YL75 PYRAE STANDARD; PRT; 138 AA C Q8275 DT 28-FBB-2003 (Rel. 41, Created) DT 28-FBB-2003 (Rel. 41, Last sequence update)
                                                                                                                                                                                                                                                                                                                       STRAIN=22491 / Serogroup A / Serotype 4A; MEDLINE=20222556; PubMed=10761919;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         HSSP, P16048, 1HTP.
HAMAP, MF 00272, -; 1.
InterPro; IPR002930; GCV_H.
InterPro; IPR003016; Lipoyl_BS.
Pfam; PF01597; GCV_H; 1.
TIGRAMS; TIGR0527; gcvH; 1.
IIDOYL; Complete proteome.
Lipoyl; Complete proteome.
BINDING 66 66 LIPO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EMBL; AL162754; CAB84042.1; -.
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                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                             NCBI_TaxID=65699;
                                            GCSH NEIMA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
RESULT 18
GCSH_NEIMA
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2 EHDG 5

Best Loca Matches

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Proc. Natl. Acad. Sci. U.S.A. 99:984-989(2002).
-!- SIMILARITY: Belongs to the UPF0217 family. Fitz-Gibbon S.T., Ladner H., Kim U.-J., Stetter K.O., Simon M.I., Miller J.H.; ; 0 64.1%; Score 25; DB 1; Length 138; 50.0%; Pred. No. 2.6e+02; ive 3; Mismatches 0; Indels EMBL; AE009861; AAL64003.1; -.
HAMAP; MF 00587; atypical; 1.
InterPro; IPR007158; DUF558.
Pfam, PF04013; DUF558; 1.
Hypothetical protein; Complete proteome.
SEQUENCE 138 AA; 15818 MW; DB88C30BAC221619 CRC64; Pyrobaculum aerophilum. Archaea; Crenarchaeota; Thermoprotei; Thermoproteales; Halobacterium mediterranei (Haloferax mediterranei). Archaea, Buryarchaeota, Halobacteria, Halobacteriales; Halobacteriaceae, Haloferax. GVPO HALME STANDARD; PRT; 140 AA. AC. Q02240.

AC Q02240.

DT 01-JUL-1993 (Rel. 26, Created)

DT 01-JUL-1993 (Rel. 26, Last sequence update)

DT 01-JUL-1993 (Rel. 26, Last annotation update) 10-OCT-2003 (Rel. 42, Last annotation update) Hypothetical UPF0217 protein PAE2175. SEQUENCE FROM N.A. STRAIN=IM2 / ATCC 51768 / DSM 7523; MEDLINE=21664397; PubMed=11792869; STRAIN=DSM 1411; MEDLINE=93021102; PubMed=1404376; J. Mol. Biol. 227:586-592(1992). Thermoproteaceae; Pyrobaculum EMBL; X64701; CAA45942.1; -. Local Similarity 50.0 nes 3, Conservative :|||: 95 DHDGLS 100 FROM N.A. 2 EHDGIN 7 NCBI_TaxID=13773; NCBI_TaxID=2252; Gvpo protein. GvPo. Query Match Best Local S Matches RESULT 20 d ò DAPPER REPORT OF THE PROPERTY

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE=2238824; PubMed=12471157;
MEDLINE=2238824; PubMed=12471157;
Melch R.A., Burland V., Plunkett G. III, Redford P., Roesch P.,
Rasko D., Buckles E.L., Liou S.-R., Boutin A., Hackett J., Stroud D.,
Mayhew G.F., Rose D.J., Zhou S., Schwartz D.C., Perna N.T.,
Mobley H.L.T., Donnenberg M.S., Blattner F.R.;
Textensive mosaic structure revealed by the complete genome sequence
of tropathogenic Escherichia coll.";
Proc. Natl. Acad. Sci. U.S.A. 99:17020-17024 (2002).
I. Proc. Natl. Acad. Sci. U.S.A. 99:17020-17024 (2002).
C. - CATALYTIC ACTIVITY: ATP + nucleoside diphosphate = ADP +
nucleoside triphosphate.
C. - CATALYTIC ACTIVITY: ATP + nucleoside diphosphate = ADP +
nucleoside triphosphate.
C. - CATALYTIC ACTIVITY: ATP + nucleoside diphosphate = COPBUNIT: Homotetramer (By similarity).
C. - SUBGLIGUAR LOCATION: Cytoplasmic (By similarity).
C. - SIMILARITY: Belongs to the NDK family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EMBL; AE016764; ...

HAMAP: MF 00451; -; 1.

InterPro1, IPR001564; 1.

Pfam; PF00134; NUCDFKINASE.

PRINTS; PR01243; NUCDPKINASE.

PRINTS; PR001243; NUCDPKINASE.

PROSTIE; PR00469; NDP KINASES; 1.

PROSTIE; PS00469; NDP KINASES; 1.

PROSTIE; PS00469; NDP MINASES; 1.

PROSTIE MINASES; 1.

PROSTIE MINASES; 1.

PROSTIE MINASES; 1.

PROSTIE MINASES; 1.

PROSTIE MINASES; 1.

PROSTIE MINASES; 1.

PROSTIE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bacteria, Proteobacteria, Gammaproteobacteria, Enterobacteriales,
Enterobacteriaceae, Escherichia.
NCBI_TaxID=217992;
                                                                                                                                                                                                                                                                                        10-0CT-2003 (Rel. 42, Created)
10-0CT-2003 (Rel. 42, Last sequence update)
10-0CT-2003 (Rel. 42, Last annotation update)
Nucleoside diphosphate kinase (EC 2.7.4.6) (NDK) (NDP kinase)
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118 118 PHOSPHORYLATION (BY SIMILARITY)
120 120 PHOSPHORYLATION (BY SIMILARITY)
142 AA, 15305 MW; DFBBSCOD7A842379 CRC64;
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Pred. No. 2.7e+02;
                                                                                                                                                                                                                             PRT; 142 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
STRAIN=O6:H1 / CFT073 / ATCC 700928;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              64.1%; S
100.0%;
                                                                                                                                                                                                                                 STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                (Nucleoside-2-P kinase)
                                                                                                                                                                                                                                                                                                                                                                                                                                                               NDK OR C3041.
Escherichia coli O6
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Best Local Similarity
                                      |||||:
11 HDGID 15
3 HDGIN 7
                                                                                                                                                               RESULT 21
NDK ECOL6
ID NDK ECOL6
AC Q8FF53;
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Gaps

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Ouery Match
Best Local Similarity 80.0%; Pred. No. 2.6e+02;
Matches 4; Conservative 1; Mismatches 0; Indels

140 AA; 15306 MW; B97A2A43E3B56BF4 CRC64;

InterPro; IPR008634; GvpO. Pfam; PF05800; GvpO; 1. Gas vesicle. SEQUENCE 140 AA; 15306 I

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us-09-394-019c-212.rsp

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[6]
EGUENCE OF 1-45.
SEGUENCESE.COli;
MEDLINE=92362321; PubMed=1323446;
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SPECIES-E.coli; STAIN-0157:H7 / RIMD 0509952;
MEDLINE-2115-6231; PubMed=11258796;
MEDLINE-2115-6231; PubMed=11258796;
MEDLINE-2115-7, MAXINO K., Omnishi M., Kurokawa K., Ishii K., Yokoyama K., Han C.-G., Ohtsubo E., Nakayama K., Murata T., Tanaka M., Tobe T.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A.

SPECIES=E.coli, STRAIN=K12;

MEDLINE=97349980; PubMed=9205837;

MEDLINE=97349980; PubMed=9205837;

Itch T., Aiba H., Baba T., Hayashi K., Inada T., Isono K.,

Itch T., Kimura S., Kitagawa M., Makino K., Miki T., Mitsuhashi N.,

Mizobuchi K., Mori H., Nakade S., Nakamura Y., Nashimoto H.,

Oshima T., Oyama S., Saito N., Sampei G., Satoh Y., Sivasundaram S.,

Tagami H., Takahashi H., Takeda J., Takemoto K., Uchara K., Wada C.,

Yamagata S., Horiuchi T., Takeda J., Takemoto K., Uchara K., Wada C.,

Yamagata S., Horiuchi T., Takeda J., Takemoto K., Uchara K., Wada C.,

Yamagata S., Horiuchi T., Takeda J., Takemoto K., Uchara K., Wada C.,

Yamagata S., Horiuchi T., Takeda J., Takemoto K., Uchara C.,

Yamagata S., Horiuchi T., Takeda J., Takemoto K., Uchara K., Wada C.,

Yamagata S., Horiuchi T., Takeda J., Takemoto K., Uchara K., Wada C.,

Yamagata S., Horiuchi T., Takeda J., Takemoto K., Uchara K., Wada C.,

Yamagata S., Horiuchi T., Takeda J., Takemoto K., Uchara K., Wada C.,

Yamagata S., Horiuchi T., Takeda J., Takemoto K., Uchara K., Wada C.,

Yamagata S., Horiuchi T., Takeda J., Takemoto K., Uchara K., Wada C.,

Yamagata S., Horiuchi T., Takeda J., Takemoto K., Uchara K., Wada C.,

Yamagata S., Horiuchi T., Takeda J., Takemoto K., Uchara K., Wada C.,

Yamagata S., Horiuchi T., Takeda J., Takemoto K., Uchara K., Wada C.,

Yamagata S., Horiuchi T., Takeda J., Takemoto K., Uchara K., Wada C.,

Yamagata S., Horiuchi T., Takeda J., Takemoto K., Uchara K., Wada C.,

Yamagata S., Horiuchi T., Takeda J., Takemoto K., Uchara K., Wada C.,

Yamagata S., Horiuchi T., Takeda J., Takemoto K., Uchara K., Wada C.,

Yamagata S., Horiuchi T., Takeda J., Takemoto K., Uchara K., Wada C.,

Yamagata S., Horiuchi T., Takemoto K., Uchara K., Wada C.,

Yamagata S., Horiuchi T., Takemoto K., Wada C.,

Yamagata S., Horiuchi T., Takemoto K., Wada C.,

Yamagata S., Horiuchi T., Takemoto K., Wada C.,

Yamagata S., Horiuchi T., Yamaga M., Wada C.,

Yamagata S., Horiuchi H., Wada M., Wada C.,

Yamagata S., Wada M., Wada C
     Gaps
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SPECIES-E.coli, STRAIN-0157:H7 / EDL933 / ATCC 700927;

MEDLINE-21074935; PubMed=11206551;

MEDLINE-21074935; PubMed=11206551;

MEDLINE-21074935; PubMedt G. III, Burland V., Mau B., Glasner J.D.,

Rose D.J., Mayhew G.F., Evans P.S., Gregor J., Kirkpatrick H.A.,

Posfai G., Hackett J., Klink S., Boutin A., Shao Y., Miller L.,

Grotbeck E.J., Davis N.W., Lim A., Dimalanta B.T., Potamousis K.,

Melch R.A., Blattner T.S., Lin J., Yen G., Schwartz D.C.,

Welch R.A., Blattner F.R.;

"Genome sequence of enterohaemorrhagic Escherichia coli 0157:H7.";

Nature 409:529-533(2001).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
SEQUENCE FROM N.A.
SPECIES=E.coli; STRAIN=K12 / MG1655;
MEDLINE=97426617; PubMed=9278503;
Blattner F.R., Plunket G. III, Bloch C.A., Perna N.T., Burland V. Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew G.F., Gregor J., Davis N.W., Kirkpatrick H.A., Goeden M.A., Rose D.J., Mau B., Shao Y.;
"The complete genome sequence of Escherichia coli K-12.";
Science 277:1453-1474(1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Shigella flexneri.
Bacteria, Proteobocteria, Gammaproteobacteria, Enterobacteriales,
Enterobacteriaceae, Escherichia.
NCBI_TaxID=562, 83334, 623;
  ö
                                                                                                                                                                                                                                                                                                         01-MAR-1992 (Rel. 21, Created)
01-FEB-1996 (Rel. 33, Last sequence update)
10-OCT-2003 (Rel. 42, Last annotation update)
Nucleoside diphosphate kinase (EC 2.7.4.6) (NDK) (NDP kinase)
(Nucleoside-2-P kinase).
NDK OR B2518 OR 23781 OR ECS3380 OR SF2564 OR S2736.
                                                                                                                                                                                                                                                      142 AA
     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Escherichia coli, Escherichia coli 0157:H7, and
  4; Conservative
                                                                                                                                                                                                                                                         STANDARD;
                                                                                                                EHDG 55
                                                           2 EHDG 5
                                                                                                                                                                                           RESULT 22
NDK ECOLI
NDK ECOLI
NDK ECOLI
DT 01-MBR-1
DT 01-PBB-1
DT 10-OCT-2
DE Nucleosi
DE Nucleosi
DE SECHETIC
OC BACTECTIC
OC BACTIC
OC BACT
     Matches
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SPECIES S.flexneri; STRAIN=2457T / ATCC 700930 / Serotype 2a;

SPECIES S.flexneri; STRAIN=2457T / ATCC 700930 / Serotype 2a;

SPECIES S.flexneri; STRAIN=2457T / ATCC 700930 / Serotype 2a;

MEDLINE=22590274; PubMed=12704152;

Wei J., Goldberg M.B., Bulhand V., Venkatesan M.M., Deng W.,

Fournier G., Mayhew G.F., Plunkett G. III, Rose D.J., Darling A.,

Mau B., Perra N.T., Payre S.M., Runyen-Janecky L.J., Zhou S.,

Schwartz D.C., Blattner F.R.,

"Complete genome sequence and comparative genomics of Shigella
flexneri serotype 2a strain 2457T.";

Infect. Immun. 71:2775-2786(2003).

-I - FUNCTION: Major role in the synthesis of nucleoside triphosphates
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
SPECIES-S.flexneri, STRAIN=301 / Serotype 2a;
SPECIES-S.flexneri, STRAIN=301 / Serotype 2a;
MEDLINE=2227406; PubMed=12384590;
MEDLINE=227406; PubMed=12384590;
MID., Yuan Z., Xu J., Wang Y., Shen Y., Lu W., Wang J., Liu H.,
Yang J., Yang F., Zhang X., Zhang J., Yang G., Wu H., Qu D., Dong J.,
Sun L., Xue Y., Zhao A., Gao Y., Zhu J., Kan B., Ding K., Chen S.,
Cheng H., Yao Z., He B., Chen R., Ma D., Qiang B., Wen Y.,
Yu J.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Genome sequence of Shigella flexneri 2a: insights into pathogenicity through comparison with genomes of Escherichia coli K12 and O157."; Nucleic Acids Res. 30:4432-4441(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                        Ray N.B., Mathews C.K.; "Nucleosided diphosphokinase: a functional link between intermediary metabolism and nucleic acid synthesis."; Curr. Top. Cell. Regul. 33:343-357(1992).
Iida T., Takami H., Honda T., Sasakawa C., Ogasawara N., Yasunaga Kuhara S., Shiba T., Hattori M., Shinagawa H.; Complete genome sequence of enterohemorrhagic Escherichia coli 0157:H7 and genomic comparison with a laboratory strain K-12."; DNA Res. 8:11-22(2001).
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--- CATALYTIC ACTIVITY: ATP + nucleoside diphosphate = ADP nucleoside triphosphate.
--- SUBDINI: Homotetramer.
--- SUBCELLULAR LOCATION: Cytoplasmic.
--- SIMILARITY: Belongs to the NDK family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE OF 1-11.
SPECIES-E.coli; STRAIN-K12 / W3110;
Frutiger S., Hughes G.J., Pasquall C., Hochstrasser D.F.;
Submitted (FEB-1996) to Swiss-Prot.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SPECIES=E.coli;
MEDLINE=95247689; PubMed=7730286;
Almaula N., Lu Q., Delgado J., Belkin S., Inouye M.;
"Nucleoside diphosphate kinase from Escherichia coli.";
J. Bacteriol. 177:2524-2529(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CHARACTERIZATION, AND PARTIAL SEQUENCE
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SPECIES=S.typhi; STRAIN=Ty2 / ATCC 700931;
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Y991 METUA
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PIR; HB5895; HB5895.

PIR; JH0455; JH0495.

PR PIR; JH0495.

PR PLS2F, D18266; JHR.

PR SOCIATE, P24233; COLI.

R SWISS-2DPAGE; P24233; COLI.

R SWISS-2DPAGE; P24233; COLI.

R ECGENE, RG10665; JGK.

R HAMAP MF 00451; -; 1.

R PROMATS; PR01243; NUCDPKINASE.

PROSTITE; PS00466; NDP KINASE.;

R PROSTITE; PS00466; NDP KINASES; 1.

R PROSTITE; PS00466; NDP KINASES; 1.

R TAIN FETANS FOR 116 116 PHOSPHORYLATION.

T ACT SITE 116 116 PHOSPHORYLATION.

T MOD_RES 120 120 PHOSPHORYLATION.

T MOD_RES 120 120 PHOSPHORYLATION.
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SPECIESES. typhi, STRAIN=CT18,
SPECIESES. typhi, STRAIN=CT18,
SPECIESES. typhi, STRAIN=CT18,
Parkhill J., Dougan G., James K.D., Thomson N.R., Pickard D., Wain J.,
Parkhill J., Dougan G., James K.D., Thomson N.R., Pickard D., Wain J.,
Churcher C., Mungall K.L., Berley S.D., Holden M.T.G., Sebalhia M.,
Baker S., Basham D., Brooks K., Chillingworth T., Connerton P.,
Cronin A., Davis P., Davies R.M., Dowd L., White N., Farrar J.,
Feltwell T., Hamiln N., Haque A., Hen T.T., Hollroyd S., Jagels K.,
Krogh A., Larsen T.S., Leather S., Moule S., O'Gaora P., Parry C.,
Ouail M.A., Rutherford K., Simmonds M., Skelton J., Stevens K.,
Miltehead S., Barrell B.G.;
Complete genome sequence of a multiple drug resistant Salmonella
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
SPECIES-S typhimurium; STRAIN-LTZ / SGSC1412 / ATCC 700720;
SPECIES-S typhimurium; STRAIN-LTZ / SGSC1412 / ATCC 700720;
MEDLINE-21534948; PubMed=11677609;
MEDLINE-21534948; PubMed=11677609;
MCCI-cliand M., Sanderson K.E., Spieth J., Clifton S.W., Latreille P., Courtney L., Porwollik S., Ali J., Dante M., Du F., Hou S., Layman D., Leonard S., Nguyen C., Scott K., Holmes A., Grewal N., Mulvaney E., Ryan E., Sun H., Florea L., Miller W., Stoneking T., Nhan M.,
Waterston R., Wilson R.K.,
"Complete genome sequence of Salmonella enterica serovar Typhimurium
                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Salmonella typhi.
Batteria, Proteobacteria, Gammaproteobacteria; Enterobacteriales;
Enterobacteriaceae; Salmonella.
NCBI_TaxID=602, 601;
                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
No-OCT-2003 (Rel. 42, Last annotation update)
Nucleoside diphosphate Kinase (EC 2.7.4.6) (NDK) (NDP Kinase)
                                                                                                                                                                                                                                                                      Query Match

64.1%; Score 25; DB 1; Length 142;

Best Local Similarity 100.0%; Pred. No. 2.7e+02;

Matches 4; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                        PRT; 142 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (Nucleoside-2-P kinase).
NDK OR STW2526 OR STY2771 OR T0330.
Salmonella typhimurium, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Nature 413:852-856(2001).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Nature 413:848-852(2001).
                                                                                                                                                                                                                                                                                                                                                                                                                        STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                       52 EHDG 55
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Q8XFN4;
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MEDINE=2251367; PubMed=12644504;
Deng W., Liou S.-R., Plunkett G. III, Mayhew G.F., Rose D.J.,
Burland V., Kodoyianni V., Schwartz D.C., Blattner F.R.;
"Comparative genomics of Salmonella enterica serovar Typhi strains Ty2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ". Bacteriol. 185.2330-2337(2003).
-!- FUNCTION: Major role in the synthesis of nucleoside triphosphates
--- chart han ATP.
--- CATALYTIC ATP + nucleoside diphosphate = ADP +
nucleoside triphosphate.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            / Match 64.1%; Score 25; DB 1; Length 142; Local Similarity 100.0%; Pred. No. 2.7e+02; nes 4; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ETYGENER SG2777; ndk.

HAWAP; MF 00451; -; 1.

HAWAP; MF 00451; -; 1.

HAWAP; MF 00451; -; 1.

FEAN; PR00134; NDK, 1.

PRINTS; PR01243; NUCDPKINASE.

PRODOM; PR001048; NDK, 1.

PROSITE; PS00469; NDP KINASES; 1.

PROSITE; PS00469; NDP KINASES; 1.

Transferase; Kinase; ATP-binding; Complete protecme.

INIT MET 10 BY SIMILARITY.

ACT SITE 116 BY SIMILARITY.

SEQÜENCE 142 AA; 15390 MW; C27B2B10BFF7F919 CRC64;
                                                                                                                                                                                                                                                                                                              -!- SUBUNIT: Homotetramer (By similarity).
-!- SUBCELLULAR LOCATION: Cytoplasmic (By similarity).
-!- SIMILARITY: Belongs to the NDK family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  15-JUL-1998 (Rel. 36, Created)
15-JUL-1998 (Rel. 36, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
Hypothetical protein MJ0991.
MJ0991.
MJ0401.
Archaea; Euryarchaeota; Methanococcales; Methanocaldococcaceae; Methanocaldococcus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EMBL; AE008814; AAL21420.1; -. EMBL; AL627275; CAD02729.1; -. EMBL; AE016835; AA068053.1; -.
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Q58398;
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CONFLICT
CONFLICT
SEQUENCE
                                                                   Query Match
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                                                              This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this etatement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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 'Complete genome sequence of the methanogenic archaeon, Methanococcus
                                                                                                                                                                                                                                                                                                                                       Gaps
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-!- FUNCTION: COULD BE INVOLVED IN OVERCOMING RESTRICTION BARRIERS DURING ESTABLISHMENT AFTER CONJUGATIVE TRANSFER.
-!- SIMILARITY: TO E.COLI YFUX.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
Enterobacteriaceae; Escherichia.
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0
                                                                                                                                                                                                                                                                                                      Length 144;
                                                                                                                                                                                                                                                                                                  64.1%; Score 25; DB 1; Length 144 ilarity 57.1%; Pred. No. 2.7e+02; Conservative 3; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Larsen M.H., Figurski D.H.;
Submitted (JAN-1995) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                           PIR; COLLEGE MODELS MODELS DESCROONS.
HYDOCHOLICAL protein; Complete proteome.
FROMFINCE 144 AA; 17270 MW; 00F1CFCD0007A09E CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   V -> VMF (IN REF. 2).
L -> P (IN REF. 2).
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P52603; Q47333,
P62603; Q47333,
O1-OCT-1996 (Rel. 34, Last sequence update)
O1-OCT-1996 (Rel. 34, Last sequence update)
O1-NOV-1997 (Rel. 35, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           InterPro; IPR004914; Antirestrict.
Pfam; PF03230; Antirestrict; 1.
Plasmid.
CONFICT 24 24 L ->
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Antirestriction protein klcA
KLCA OR KILC.
                                                                                                                                                                                                EMBL; U67541; AAB98996.1; -.
PIR; G64423; G64423.
                                Science 273:1058-1073(1996)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Plasmid IncP-alpha RK2.
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LDYDGID 85
                                                                                                                                                                                                                                                                                                                                                                        1 LEHDGIN 7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Escherichia coli.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STRAIN=K12;
MEDLINE=95047556; PubMed=7959070;
Whitchurch C.B., Mattick J.S.;
Macchurch C.B., Contains a set of genes homologous to those
"Escherichia coli contains a set of genes and the assembly of type-4
fimbriae in other bacteria.";
                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.
SEQUENCE FROM N.A.
MEDLINE=97426617; PubMed=9278503;
Blattner F.R., Plunkett G. III, Bloch C.A., Perna N.T., Burland V.,
Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew G.F.,
Gregor J., Davis N.W., Kirkpatrick H.A., Goeden M.A., Rose D.J.,
Mau B., Shao Y.;
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                                                                                                                                                                                                                                                                                                                                                                                  Bacherichia coli,
Bacteria, Proteobacteria, Gammaproteobacteria, Enterobacteriales,
Enterobacteriaceae, Escherichia.
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SEQUENCE FROM N.A.

MEDILINE-12 / Will 0.

MEDILINE-3261430; Pubmed=8202364;

MEDILINE 9.4 Mori H., Yura T., Ishihama A.;

Fujita N., Mori H., Yura T., Ishihama A.;

Kygetematic sequencing of the Escherichia coli genome: analysis the 2.4-4.1 min (110, 917-193 643 bp) region.",

Nucleic Acids Res. 22:1637-1639 (1994).
                                                                                                     ö
                                                                     Length 146;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "The complete genome sequence of Escherichia coli K-12.";
Science 277:1453-1474(1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bhatia R.S.;
Submitted (XXX-1993) to the EMBL/GenBank/DDBJ databases.
L -> P (IN REF. 2).
R -> P (IN REF. 2).
9835589E26B8BA60 CRC64;
                                                                                                                                                                                                                         RESULT 26
PPDD ECOLI
1D PPDD ECOLI
STANDARD; PRT; 146 AA.
10 PPDD ECOLI
50 PS647; QBRMZ6;
DT 01-UNN-1994 (Rel. 29, Created)
DT 01-FBB-1995 (Rel. 31, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DF Preplin peptidase dependent protein D precursor.
GN PPDD OR E0108.
                                                                   DB 1; LE
                                                                   64.1%; Score 25; DB 100.0%; Pred. No. 2.8 ive 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Unpublished observations (JAN-1994).
                                 146 AA; 15867 MW;
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                                                                                                       4; Conservative
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                                                                                    Best Local Similarity
Matches 4; Conserv
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MEDLINE=95075659; PubMed=7984428;
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IDENTIFICATION.
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01-AUG-1990 (Rel. 15, Last sequence update)
01-FBB-1991 (Rel. 17, Last annotation update)
Hypothetical 5.7 kDa HinDII-C protein.
Waccinia wirus (strain WR).
Viruses; dsDNA viruses, no RNA stage; Poxviridae; Chordopoxvirinae;
Orthopoxvirus.
                                                                                                                                                                             PREPILLIN PEPTIDASE DEPENDENT PROTEIN METHYMATION (BY SIMILARITY).
MDKOR -> DGOAT (IN REF. 2).
7 7905D78A1E8B17A0 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
MEDLINE-89073756; PubMed-2849238;
Kotwal G.J., Moss B.;
"Analysis of a large cluster of nonessential genes deleted from vaccinia virus terminal transposition mutant.";
Virology 167:524-537(1988).
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64.1%; Score 25; DB 1; Length 146;
Best Local Similarity 57.1%; Pred. No. 2.8e+02;
Matches 4; Conservative 2; Mismatches 1; Indels
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PIR; G31829; WZVZA7.
Hypothetical protein; Barly protein.
SEQUENCE 60 AA; 5680 MW; B29BDEE019384BEB CRC64;
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EMBL, D26562, BAB96678.1, ALT_INIT.
EMBL, AE00119, AAC73319.1; --
EMBL, EC0334; --
PIR, D64733; D64733.
HSSP, P02974; 2PIL.
HSSP, P02974; 2PIL.
INCEPPO, IPR001082; Pilin.
InterPro, IPR0011082; Pilin.
ProDom; PD000666; Pilin; 1.
ProDom; PD000666; Pilin; 1.
PROSTIE, PS00409; PROKAR METHYL; 1.
Methylation; Complete proteome.
PROSEP
                                                                                                                                                                BY SIMILARITY
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                                                                                                                                                                                                                    146 AA; 15622 MW;
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Best Local Similarity 80.0
Matches 4; Conservative
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ID YDIE ECOLI
AC P40721;
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YHOS VACCV
ID YHOS VACCV
AC P17356;
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STRAIR-615:7H7 / RIMD 0509952;

MEDLINE=21156231; PubMed=11258796;

Hayashi T., Makino K., Ohnishi M., Kurokawa K., Ishii K., Yokoyama K., Hayashi T., Makino K., Ohnishi M., Kurata T., Tanaka M., Tobe T., Han C.-G., Ohtsubo E., Nakayama K., Murata T., Tanaka M., Tobe T., Kuhara S., Shiba T., Hattori M., Shinagawa H.; Sasakawa C., Ogasawara N., Yasunaga T., Kuhara S., Shiba T., Hattori M., Shinagawa H.; Secherichia coli O157:H7 and genomic comparison with a laboratory strain K-12.";
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SEQUENCE FROM N.A.
STRAIN-RIA / MGJES5,
MEDLINE=97426617; Pubmed=9278503;
Blattner F.R., Plunkett G. III, Bloch C.A., Perna N.T., Burland V.,
Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew G.F.,
Gregor J., Davis N.W., Kirkpatrick H.A., Goeden M.A., Rose D.J.,
Mau B., Shao Y.;
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STRAIN=0157:H7 / EDD-933 / ATCC 700927;

MEDLINE-21074933; PubMed=11206551;
Perna N.T., Plunkett G. III, Burland V., Mau B., Glasner J.D.,

Rose D.J., Mayhew G.F., Evans P.S., Gregor J., Kirkpatrick H.A.,

Groffai G., Hackett J., Klink S., Boutin A., Shao, Y., Miller L.,

Apodaca J., Anantharaman T.S., Lin J., Yen G., Schwartz D.C.,

Abodaca J., Ananthareman T.S., Lin J., Yen G., Schwartz D.C.,

"Genome sequence of enterchaemorrhagic Escherichia coli 0157:H7.";

Nature 409:529-533(2001).
01-FEB-1995 (Rel. 31, Created)
16-PEB-1995 (Rel. 31, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
16-OCT-2001 (Rel. 40, Last annotation update)
Hypothetical protein ydiE
ByDE OR B105 OR 22734 OR ECS2412.
Bscherichia coli, and
Bscherichia coli 0157:H7.
Batceria, Proteobacteria; Gammaproteobacteria; Enterobacteriales;
Enterobacteriaceae; Escherichia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE=9725137; PubMed=9097039; MEDLINE=9725137; PubMed=9097039; MEDLINE=9725137; PubMed=9097039; MEDLINE=9725137; PubMed=9097039; Kitada T., Isono K., Itoh T., Rashimoto K., Kitadawa M., Kitagawa M., Makino K., Miki T., Mizobuchi K., Mori H., Mori T., Kitagawa M., Makade S., Makamura Y., Mashimoto H., Mishio Y., Oshima T., Saito N., Sampei G., Seki Y., Sivasundaram S., Tagami H., Takeda J., Takemoto K., Takeuchi Y., Wada C., Yamamoto Y., Horiuchi T.; Yamamoto Y., Horiuchi T.; Scherichia coli K-12 genome corresponding to the 28.0-40.1 min region on the linkage map."; DNA Res. 3:363-377(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A.
MEDLINE-91323737; PubMed=1677907;
Hudson G.s., Rellos P., Davidson B.E.;
"Two promoters control the aroH gene of Escherichia coli.";
Gene 102:87-91(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Borodovsky M., Rudd K.E., Koonin E.V.;
"Intrinsic and extrinsic approaches for detecting genes in bacterial genome."

Nucleic Acids Res. 22:4756-4767(1994).
-!- SIMILARITY: TO Y.ENTEROCOLITICA HEMP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "The complete genome sequence of Escherichia coli K-12."; Science 277:1453-1474(1997).
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                                                                                                                                                                                                                                          EMBL, M38266; -, NOT ANNOTATED CDS.
EMBL; AD000266; AAC74775.1; -.
EMBL; AD000258; BAA15474.1; -.
EMBL; AD0025394; AAG56692.1; -.
EMBL; A04929; A64929; D00300.
PIR; A64929; A64929; D00300.
PIR; H85778; H85778;
BCOGNOTE; EGI2391; ydis.
Hypothetical protein; Complete proteome.
SEQUENCE 63 AA; 7117 MW; A1EA3DD6F1DC69A1 CRC64;
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Hypothetical protein, Plasmid.
SEQUENCE 69 AA; 8041 MW, B69DECA31451EAF4 CRC64;
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28-FEB-2003 (Rel. 41, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Hypothetical protein pX02-82,
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AC Q9RNV3
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Ye X.Y., Cheng K.J., Ng T.B.; Isolation and characterization of angiogenin-1 and a novel protein designated lactogenin from boxine milk."; Biochem. Biophys. Res. Commun. 263:187-191(1999).

TISSUE=Milk; MEDLINE=99417543; Pubmed=10486275; SEQUENCE, AND CHARACTERIZATION

10-OCT-2003 (Rel. 42, Created)
10-OCT-2003 (Rel. 42, Last sequence update)
10-OCT-2003 (Rel. 42, Last annotation update)
10-OCT-2003 (Rel. 42, Last annotation update)
Lactogenin (RC 3.1.27.-) (Fragments).
Bos taurus (Bovine).
Eukaryota, Metazoa; Chordata, Craniata, Vertebrata, Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea;
MCEI_TAXID=9913;

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REPUBLICAN OF HIV-1 REVERSE TRANSCRIPTASE.

REDILNE=20555576; PubMed=11105990;

REDILNE=20555576; PubMed=11105990;

RET WELL Gemonstration of an inhibitory activity of milk proteins

RT effect of aucaintylation.";

RT effect of aucaintylation.";

Life Sci. 67:2745-2752(2000)

C. -I- FUNCTION: Secretory RNase specific towards pyrimidine bases, with

Life Sci. 67:2745-2752(2000)

C. -I- FUNCTION: Secretory RNase specific towards pyrimidine bases, with

Life Sci. 67:2745-2752(2000)

C. -I- FUNCTION: Secretory RNase specific towards pyrimidine bases, with

Life Sci. 67:2745-2752(2000)

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Life Sci. 67:2745-2752(2000)

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C. -I- FUNCTION: Secretory RNase specific towards pyrimidine bases, with

C. -I- FUNCTION: Secretory RNASE Pankean

C. -I- FUNCTION: Secretory RNASE Pankean

C. -I- FUNCTION: Single Pankean

C. -I- FUNCTION: Secretory RNASE Pankean

C. -I- FUNCTION: Secretory RNASE Pankean

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C. -I- FUNCTION CONSE SINGLE RNASE PANKEAN

C. -I- FUNCTION CONSE SINGLE RNASE PANKEAN

C. -I- FU
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Catarrhini; Hominidae; Homo.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (Rel. 28, Created)
(Rel. 28, Last sequence update)
(Rel. 42, Last annotation update)
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ZNF123.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Bukaryota; Metazoa; Chordata;
Mammalia; Butheria; Primates;
NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
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59 EHEGV 63
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01-FEB-1994 (
10-OCT-2003 (
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2123 HUMAN
LD 2123 HUMAN
AC 235273;
DT 01-FEB-1994
DT 01-FEB-1994
DT 00-CT-2003
DE Zinc finger
GN ZNF123.
OS HOMO SAPIENS
OC BUKARYCCA;
N MAMMALIA; EU
OX NCBI TAXID=5
RN [1]
RP SEQUENCE FRC
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Best Local (
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PRT;

STANDARD;

LGEN_BOVIN ID LGEN_BOVIN AC P59761;

RESULT 30

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   endophyte.";
Submitted (AUG-2000) to the EMBL/GenBank/DDBU databases.
-!- SIMILARITY: Belongs to the UPF0125 (rnfH) family.
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation -
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                                                                                                                                                                                                                                                                                                                                          DEED, S52506; AAB24880.1; -...

PERL; S52506; AA4366.

R Genew; HGNC:12906; ZNF123.

R MM; 194630.

R GO; GO:0005634; C:nucleus; NAS.

GO; GO:0005634; C:nucleus; NAS.

GO; GO:000355; P:regulation of transcription, DNA-dependent; NAS.

R GO; GO:000355; P: C2H2; I.

R PAGSTIF; SM00355; ZFC C2H2; I.

PROSITE; PS50157; ZINC FINGER C2H2.1; I.

R ROSITE; PS50157; ZINC FINGER C2H2.2; I.

R NON TER I I I I CARA:

T ZN FING 34 60 C2H2-TYPE.

T ZN FING 34 74 74

SEQUENCE 74 AA; B3382 MW; DF3BED9F83E86FD6 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                Genomics 14:970-978[1992].
-!- FUNCTION: May act as a transcription regulator in developmental
                                                                                                     processes.
-: SUBCELLULAR LOCATION: Nuclear (Potential).
-: TISSUE SPECIFICITY: Liver.
-: SIMILARITY: BELONGS TO THE KRUEPPEL FAMILY OF C2H2-TYPE ZINC-FINGER PROTEINS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pseudomonas stutzeri (Pseudomonas perfectomarina).
Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales;
Pseudomonadaceae; Pseudomonas.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Desiroues N., Lin M., Elmerich C., "Organisation of nif genes in Pseudomonas stutzeri A15, a rice
                Saleh M., Selleri L., Inttle P.F., Evans G.A.;
"Isolation and expression of linked zinc finger gene clusters
human chromesome liq";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 24; DB 1; Length 74;
Pred. No. 2.1e+02;
; Mismatches 0; Indels
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16-OCT-2001 (Rel. 40, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61.5%; Scor.
28.6%; Pred. No. 2...
... 5; Mismatches
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22 IQHEGVH 28
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Best Local Similarity
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RNFH PSEST
ID RNFH PSEST
AC P57111;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDINE-5550630; PubMed=7442800; Relative F. Virkness E.F., Relatoran R.D., Adams M.D., White O., Clayton R.A., Kirkness E.F., Relatavage A.R., Bult C.J., Tomb J.-F., Dougherty B.A., Merrick J.M., McKenney K., Sutton G., Fitzhugh W., Fields C.A., Gocayne J.D., Scott J.D., Shirley R., Liu L.-I., Glodek A., Kelley J.M., Weidman J.F., Phillips C.A., Spriggs T., Hedplom E., Cotton M.D., Utterback T.R., Hanna M.C., Nguyen D.T., Saudek D.M., Brandon R.C., Rine L.D., Fritchman J.L., Fuhrmann J.L., Geoghagen N.S.M., Venter J.C., McDonald L.A., Small K.V., Fraser C.M., Smith H.O.,
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Pasteurellaceae; Haemophilus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61.5%; Score 24; DB 1; Length 86; 50.0%; Pred. No. 2.5e+02; ive 2; Mismatches 1; Indels
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A6711F78691B2A57 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                              POLY-ASP.
E1E3D6BED15CCD2B CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-NOV-1995 (Rel. 32, Created)
01-NOV-1995 (Rel. 32, Last sequence update)
28-FBB-2003 (Rel. 41, Last annotation update)
Sor ribosomal protein 125.
RPLY OR RPL25 OR HI1630.
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                                                                                                                                                                                                                                         EMBL, AJ297529, CAC03730.1; -. HAMAP; MF 00460; -; 1. InterPro; IPR005346; UPF0125. PFam; PF03658; UPF0125; 1.
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86 AA; 9688 MW;
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Best Local Similarity 50...
3; Conservative
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P45281;
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RL25_HAEIN
HIDDRY REAL PARTY REAL
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MEDLINE=93122808; PubMed=1339395;

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RESULT 36
1D PYY DICLA
AC Q9F799, DICLA
AC Q9F799, DICLA
DT 16-OCT-2001
DT 16-OCT-2001
DE PEPTIGE YY-
GN DICENTRACH
OC ACHINOCE;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             (1)
SEQUENCE FROM N.A.
SEQUENCE FROM N.A.
MEDLINE=21359325; PubMed=11466286;
MOELLINE=21359325; PubMed=11466286;
Noelling J., Breton G., Omelchenko M.V., Makarova K.S., Zeng Q., Gibson R., Lee H.M., Dubois J., Qiu D., Hitti J., Wolf Y.I., Bennett G.N., Koonin E.V., Smith D.R.;
"Genome sequence and comparative analysis of the solvent-producing bacterium Clostridium acetobutylicum.";
J. Bacteriol. 183:4823-4838 (2001).
--- FUNCTION: Binds together with S18 to 16S ribosomal RNA (By
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                       Gaps
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Q8VQ71;

10-OCT-2003 (Rel. 42, Last sequence update)

10-OCT-2003 (Rel. 42, Last annotation update)

COMG_OPERON protein 3 homolog precursor (Late competence protein
                                                                                                                                                                                                                                                                                                                                                                    Clostridium acetobutylicum.
Bacteria; Firmicutes; Clostridia; Clostridiales; Clostridiaceae;
Clostridium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -1- SIMILARITY: Belongs to the S6P family of ribosomal proteins.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EMBL, A4807867, A4K81644.1; -
PIR, A97357, A4K81644.1; -
PIR, A97357, A4K81644.1; -
InterPro; IPR000529, Ribosomal_S6.
Pfam, PF01250; Ribosomal_S6, 1.
Propom; PP003809, Ribosomal_S6; 1.
Propom; P001086; S6, 11.
PROSITE; PS01048, RIBOSOMAL_S6; FALSE NEG.
Ribosomal protein; FRNA-binding; Complete proteome.
SEQUENCE 95 AA; 10912 MW; 578189E9D89D9B08 CRC64;
                       Indels
  Pred. No. 2.8e+02;
1; Mismatches 2;
                                                                                                                                                                                                                                                           28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
30S ribosomal protein 86.
                                                                                                                                                                                                                    95 AA.
  57.1%;
                       4; Conservative
                                                                                                                                                                                                                    STANDARD;
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14 LDEEGIN 20
                                                                                                        43 LNHDELN 49
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  Best Local Similarity
Matches 4; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                        NCBI_TaxID=1488;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  similarity).
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RPSF OR CAC3724.
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Q97CX2;
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CMGC_BACLI
ID CMGC_BI
DT 10-OCT
DT 10-OCT
DT 10-OCT
DE COMGC)
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RS6_CLOAB
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                                                                                                                                                                                                                                             DEPLATE 18-ATCC 14:00.7.

STRAIN=ATCC 14:00.7.

MEDLINE=22003725; PubMed=12007649;

MEDLINE=22003725; PubMed=12007649;

MEDLINE=22003725; PubMed=12007649;

Sorokin A.; Galleron N., Andersen J.T., Joergensen P.L., Ehrlich S.D., Sorokin A.;

Sorokin A.;

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Sorokin A.;

Sorokin A.;

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Sorokin A.;

Sorokin A.;

Sorokin A.;

Sorokin Bacillus

Sorokin Sequires (Compare their competence genes.";

FEMS Microbiol. Lett. 209:23-30(2002).

-I- SUBRUIT: Homodimer (By similarity).

-I- SUBRUIT: Homodimer (By similarity).

-I- SUBRUIT: Homodimer (By similarity).

-I- SUBCELLULAR LOCATION: The unprocessed form is an integral membrane protein with its C-terminus outside the membrane. Upon cleavage, it is translocated to the outer face of the membrane (By it is translocated to the outer face of the membrane (By it is translocated to the outer face of the membrane (By it is translocated to the outer face of the membrane (By it is translocated to the outer face of the membrane (By it is translocated to the outer face of the membrane (By it is translocated to the outer face of the membrane (By it is translocated to the outer face of the membrane (By it is translocated to the outer face of the membrane (By it is translocated to the outer face of the membrane (By it is translocated to the outer face of the membrane (By it is translocated to the outer face of the membrane (By it is translocated to the outer face of the membrane (By it is translocated to the outer face of the membrane (By it is translocated to the outer face of the membrane (By it is translocated to the outer face of the membrane (By it is translocated to the outer face of the membrane (By it is the membrane (By it is the membrane (By it is the membrane (By it is the membrane (By it is the membrane (By it is it is translocated to the outer face of the membrane (By it is it is the membrane (By it is it is the membrane (By it is it is it is it is it is it is it is it is it is it is it is it is it is it is it is it is it is
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Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Actinopterygii; Neopterygii; Teleostei; Buteleostei; Neoteleostei;
Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Percoidei;
Moronidae; Dicentrarchus.

NCBL TaxID=13489;
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TISSUB=brain;
MEDLINE=98292845; PubMed=9629200;
Cerda-Reverter J.M., Martinez Rodriguez G., Zanuy S., Carrillo M.,
Larhammar D.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ;
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EMBL, AF45917, BAL67531.1; ...

InterPro; IPR001020; Prok N methyl_S.

PRINTS; PR00431, BTTERIAGSFO.

PROSITE; PS00409; PR0KAR NTER METHYL; 1.

Competence; Transport; Methylation; Transmembrane.

PROPER 1 5 BY SIMILARITY.

COMG OPPERON PROTEIN 3 HOMOLOG.
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METHYLATION (BY SIMILARITY).
METHYLATION SY SIMILARITY.
E4B7B11257BFF3A7 CRC64;
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Bacillus licheniformis.
Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus.
NCBI_TaxID=1402;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16-0CT-2001 (Rel. 40, Created)
16-0CT-2001 (Rel. 40, Last sequence update)
10-0CT-2003 (Rel. 42, Last annotation update)
Peptide YY-like precursor (PYY).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              similarity).
-!- SIMILARITY: Belongs to the comGC family.
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97 AA, 10726 MW;
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Best Local Similarity 60...
3; Conservative
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SEQUENCE FROM N.A.
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57 MDHDG 61
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dene 175:73-79(1996).
-- CATALYTIC ACTIVITY: UTP + N-acetyl-alpha-D-glucosamine 1-phosphate
-- dlphosphate + UDP-N-acetyl-D-glucosamine;
-- paptidoglycan and lipopolysaccharide biosynthesis.
-- PATHWAY: PEDIONGS TO THE CYSZ/LACA/LEXA/NODL FAMILY OF
-- SIMILARITY: BELONGS TO COMPOSED OF MULTIPLE REPEATS OF [LIV]-G-X(4).
Potocka I., Nelson W.C., Newton A., Stephens C., Phadke N.D., Ely B., DeBoy R.T., Dodson R.J., Durkin A.S., Gwinn M.L., Haft D.H., Kolonay J.F., Smit J., Craven M.B., Khouri H., Shetty J., Berry K., Utterback T., Tran X., Wolf A., Vamathevan J., Ermolaeva M., White O., Salzberg S.L., Venter J.C., Shapiro L., Fraser C.M.; "complete genome sequence of Callobacter crescentus."; Proc. Natl. Acad. Sci. U.S.A. 98:4136-4141(2001).

-: COPACTOR: Binds I 2Fe-2S cluster (By similarity).

-: SIMILARITY: Belongs to the adrenodoxin / putidaredoxin family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Krath B.N., Hove-Jensen B.;
"Bacillus caldolyticus prs gene encoding phosphoribosyl-diphosphate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (BY SIMILARITY).
(BY SIMILARITY).
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(BY SIMILARITY).
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InterPro; IPR01055; Adrenodoxin.
InterPro; IPR01055; Adrenodoxin.
InterPro; IPR001041; Ferredoxin.
PEM; PF00111; Fer2; 1.
PRINTS; PR00355; ADRENODOXIN.
PROSTER; PS00844; ADX; 1.
Electron transport; Metal-binding; Iron-sulfur; Iron; 2Fe-2S; Complete proteome.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-NOV-1995 (Rel. 32, Created)
01-NOV-1995 (Rel. 32, Last sequence update)
01-NOV-1995 (Rel. 32, Last annotation update)
01-NOV-1995 (Rel. 32, Last annotation update)
uDp-N-acerylglucosamine pyrophosphorylase (EC 2.7.7.23) (N-acerylglucosamine-1-phosphate uridyltransferase) (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61.5%; Score 24; DB 1; Length 106; 60.0%; Pred. No. 3.2e+02; ive 2; Mismatches 0; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        46 40 IRON-SULFUR (2FE-2S) (BY S
46 46 IRON-SULFUR (2FE-2S) (BY S
49 49 IRON-SULFUR (2FE-2S) (BY S
86 86 IRON-SULFUR (2FE-2S) (BY S
106 AA; 11366 MW; 59D096A72D993339 CRC64;
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MEDLINE=97075912; PubMed=8918235;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL; X51607; CAA35950.1; --
EMBL; AE006011; AAK25486.1; --
PIR; S32573; S32573.
TIGR; CC3524; --
TIGR; CC3524; --
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Best Local Similarity 60.0
Matches 3; Conservative
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7 IQHDG 11
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P42817;
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SEQUENCE
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          "Cloning of neuropeptide Y, peptide YY, and peptide Y from sea bass (Dicentrarchus labrax), a marine teleost.";
Ann. N.Y. Acad. Sci. 839:493-495(1998).
-i. FUNCTION: Gastrointestinal hormone and neuropeptide.
-i. SUBCELLUIAR LOCATION: Secreted.
-i. SIMILARITY: Belongs to the NPY family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
STRAIN=ATCC 19089 / CB15,
STRAIN=21173698; Pubmed=11259647;
Nierman W.C., Feldblyum T.V., Laub M.T., Paulsen I.T., Nelson K.E.,
Eisen J.A., Heidelberg J.F., Alley M.R.K., Ohta N., Maddock J.R.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C-TERMINAL EXTENSION.
AMIDATION (G-64 PROVIDE AMIDE GROUP)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EMBL; AJ005379; CAB64933.1; -.
HSSP; P01303; IRCN.
InterPro; IRRO01955; Pancreatic_hormn.
Pfam; PF00159; PANCHORMONE.
ProDom; PR00276; Pancreatic_hormn; 1.
SMART; SM00309; PAH; 1.
PROSITE; PS00265; PANCREATIC HORMONE 1; 1.
PROSITE; PS50276; PANCREATIC HORMONE 2; 1.
PROSITE; PS50276; PANCREATIC HORMONE 2; 1.
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Caulobacteraceae; Caulobacter.
NCBI_TaxID=155892;
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MEDLINE=95270612; PubMed=7751304;
Wang S.P., Chen Y.P., Ely B.;
"A ferredoxin, designated FdxP, stimulates p-hydroxybenzoate
hydroxylase activity in Canlobacter crescentus.";
J. Bacteriol. 177:2908-2911(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 24; DB 1; Length 99;
Pred. No. 2.9e+02;
0; Mismatches 1; Indels
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Submitted (APR-1992) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6897DEBABD4E74FD CRC64;
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01-00T-1994 (Rel. 30, Last sequence update)
10-00T-2003 (Rel. 42, Last annotation update)
FDXB OR FDXP OR CC3524.
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Best Local Similarity 80.0%;
Matches 4; Conservative
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STRAIN=ATCC 19089 / CB15;
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65
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SIGNAL
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P37098;
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MOD_RES
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FER2_CAUCR
                    STITE THE TENT OF 
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between the Swiss Institute of Bioinformatics and the EMBL outstation -
the Buropean Bioinformatics Institute. There are no restrictions on its
use by non-profit institutions as long as its content is in no way
modified and this statement is not removed. Usage by and for commercial
entities requires a license agreement (See http://www.isb-sib.ch/announce/
or send an email to license@lsb-sib.ch).
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MEDLINE=21996410; PubMed=12000953;
Bentley S.D., Chater K.F., Cerdeno-Tarraga A.-M., Challis G.L.,
Bentley S.D., Chater K.F., Cerdeno-Tarraga A.-M., Challis G.L.,
Thomson N.R., James K.D., Harris D.E., Quail M.A., Kieser H.,
Harper D., Bateman A., Brown S., Chandra G., Chen C.W., Collins M.,
Cronin A., Fraser A., Goble A., Hidalgo J., Hornsby T., Hawarth S.,
Hanng C.-H., Kieser T., Larke L., Murphy L., Ollver K., O'Neil S.,
Rabbinowitsch E., Rajandream M.A., Rutherford K., Rutter S.,
Seeger K., Saunders D., Sharp S., Squares R., Squares S., Taylor K.,
Warren T., Wietzorrek A., Woodward J., Barrell B.G., Parkhill J.,
Hopwood D.A.,
"Complete genome sequence of the model actinomycete Streptomyces
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     coelicolor A3(2).";

Nature 41'141-147(2002).

-!- FUNCTION: Catalyzes the conversion of 7,8-dihydroneopterin to hydroxymethyl-7,8-dihydropterin (By similarity).

-!- CATALYTIC ACTIVITY: 2-amino-4-hydroxy-6-(D-erythro-1,2,3-trihydroxypropyl)-7,8-dihydropteridine = 2-amino-4-hydroxy-6-hydroxymethyl-7,8-dihydropteridine + glycolaldehyde.

-!- PATHWAY: Folate blosynthesis.
-!- SIMILARITY: Belongs to the DHNA family.
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Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
Streptomycineae; Streptomycetaceae; Streptomyces.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 42.9%; Pred. No. 3.5e+02;
Matches 3; Conservative 3; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                   PIR; PC4228; PC4228.
INCEPPO: IPROOL451; Hexapep transf.
PROSITE; PS00101; HEXAPEP TRANSFERASE; 1.
Peptidoglycan synthesis; Čell wall; Transferase;
Nucleotidyltransferase; Repeat.
NON TER
1 1 1 1 1 1 SEQÜENCE 116 AA; 12106 MW; D27706B9BBF7BB62 CRC64;
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30-MAY-2000 (Rel. 39, Last sequence update)
10-OCT-2003 (Rel. 42, Last annotation update)
Dibydroneopterin aldolase (EC 4.1.2.25) (DHNA).
FOLB OR SCO3400 OR SCE9.07.
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                                                                                                                                                                                                                                                                                                                                                                       EMBL; X83708; CAA58681.1; -.
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FOLB STREO
DT 30-MAY.
DT 30-MAY.
DT 10-OCT.
DT 10-OCT.
DS Streptc
OC Bacterio
CC Bacterio
CC Bacterio
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "Whole-genome random sequencing and assembly of Haemophilus influenzae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
STRAIN=Rd / KW20 / ATCC 51907;
MEDLINE=95350630; PubMed=7542800;
MEDLINE=95350630; PubMed=7542800;
Rerlavage A.R., Bult C.J., Tomb J.-F., Dougherty B.A., Merrick J.M., McKenney K., Sutton G., Fitzhugh W., Fialds C.A., Gocayne J.D., Scott J.D., Shirley R., Liu L.-I., Glodek A., Kelley J.M., Weidman J.F., Phillips C.A., Spriggs T., Hedblom B., Cotton M.D., Uterback T.R., Hanna M.C., Nguyen D.T., Saudek D.M., Brandon R.C., Pine L.D., Fritchman J.L., Fuhrmann J.L., Geoghagen N.S.M., Venter J.C., McDonald L.A., Small K.V., Fraser C.M., Smith H.O., Venter J.C.,
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Haemophius influenzae.
Bacteria; Proteobacteria; Gammaproteobacteria; Pasteurellales;
Pasteurellaceae; Haemophilus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 61.5%; Score 24; DB 1; Length 120; Best Local Similarity 80.0%; Pred. No. 3.7e+02; Matches 4; Conservative 0; Mismatches 1; Indels
                                                                                                                                      61.5%; Score 24; DB 1; Length 119; 50.0%; Pred. No. 3.6e+02; ive 3; Mismatches 0; Indels
InterPro; IPR006157; FolB.
InterPro; IPR006156; FolB.fam.
PFEam, PF02152; FolB; 1.
TIGRPAMS; TIGR00525; folB; 1.
TIGRPAMS; TIGR00526; folB; 1.
TIGRPAMS; TIGR00526; folB; 1.
SEQUENCE II9 AA; 13002 MW; 0E865735FALA694D CRC64;
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                                                                                                                                                                                                                                                                                                                                           01-NOV-1995 (Rel. 32, Created)
01-NOV-1995 (Rel. 32, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
PHNA protein homolog.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        InterPro; IPR004624; PhnA.
Pfam; PF03831; PhnA; 1.
TIGREMB; TIGR00686; phnA; 1.
Complete proteome.
SEQUENCE 120 AA; 13678 MW;
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                                                                                                                                            Query Match
Best Local Similarity 50.0
Matches 3; Conservative
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84 LKHEGV 89
                                                                                                                                                                                                                  1 LEHDGI 6
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                                                                                                                                                                                                                                                                                                       RESULT 40
PHNA HAEIN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE-98044033; PubMed-9384377;

RA KALALI-LB & Cogasawara N., Moszer I., Albertini A.M., Alloni G.,

RA Azevedo V., Bertero M.G., Bessieres P., Bolotin A., Borchert S.,

Raverdo V., Bertero M.G., Bessieres P., Bolotin A., Borchert S.C.,

RA Borriss R., Boursier L.V., Caldwell B., Capuano V., Carter N.M.,

RA Borriss R., Codani J.J., Connerton I.F., Cummings N.J., Daniel R.A.,

Broullet S., Erington J.F., Cumerton I.F., Cummings N.J., Daniel R.A.,

RA Choi S.K., Codani J., Fabret C., Ferrari E., Foulger D.,

RA Choi S. W., Calser P., Goffeau A., Galiphtly E.J., Grandi G.,

RA Ghiseppi G., Guy B.J., Haga K., Haiech J., Harwood C.R., Henaut A.,

RA Hilbert H., Holsappel S., Hosono S., Hullo M.F., Itaya M., Jones L.,

RA Korrita R., Lapidus A., Liu H., Masuda S., Mauel C., Medigue C.,

RA Median N., Mallado R.P., Mizuno M., Mosetil D., Nakai S., Kumano M.,

RA Median N., Mallado R.P., Mizuno M., Mosetil D., Nakai S., Noback M.,

RA Presecan E., Pulic P., Purnelle B., Roche B., Rey M., Reynolds S.,

Ray Presecan E., Pulic P., Purnelle B., Roche B., Roy Prescott A.M.,

RA Schiguchi J., Sekwaka A., Serror P., Shin B.S., Soldo B.,

RA Sorokin A., Tanaka T., Takahashi H., Takemaru K.,

RA Sorokin A., Tanaka T., Tarahashi H., Takemaru K.,

RA Tosato V., Uchiyama S., Vandenbol M., Vannier F., Vassarotti A.,

Winters P., Wipat A., Yamamoco H., Yamane K., Yasumoto K., Yata K.

Waiters P., Wipat A., Yamamoco H., Yamane K., Yasumoto K., Yata K.

Wanters P., Wipat A., Yamamoco H., Yamane K., Yasumoto K., Yata K.

Wanters P., Wipat A., Yamamoco H., Yamane K., Yasumoto M.,

Wanters P., Wipat A., Yamamoco H., Yamane K., Yasumoto M.,

Wanters P., Wipat A., Yamamoco H., Yamane K., Yasumoto M.,

Wanters P., Wipat A., Yamamoco H., Yamane K., Yasumoto M.,

Wanters P., Wipat A., Yamamoco H., Yamane K., Yasumoto M.,

Wanters P., Wipat A., Yamamoco H., Yamane K., Yasumoto M.,

Wanters P., Wipat A., Yamamoco M., Yasumoto M.,

Wanters P., Wipat M., Yamamoco M., Yasumoto M.,

Wanters P., Wipat M., Yamane M., Yamane M., Yasumoto M.,

Want
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                                                                                                                                                                                                                                                                                                                                                                        Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus.
NCBI_TaxID=1423;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EMBL; Z99106; CAB12336.1; -. BIR.; B69779; B69779; B69779; B69779; B69779; British Er B12143; VdeP.

Pinterpro; IPR002577; DUP24.

Probon; PD004025, DUF24; 1.

Probon; PD04025, DUF24; 1.

Probon: PD04021 Drefair; Complete proteome.

SEQUENCE 128 AA; 15211 MW; A47D416545CCA5C8 CRC64;
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-!- SIMILARITY: Belongs to the UPF0087 family.
                                                              PORCE BACSU STANDARD; PRT; 128 AA. 1967; 031495; 031495; 031495; 031495; 0316472 2000 (Rel. 39, Last sequence update) 10-OCT-2003 (Rel. 42, Last annotation update) 14Pyochetical protein ydep. 18PB OR SU05290.
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SEQUENCE FROM N.A.
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RESULT 41
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                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STRAIN=IA565,
MEDLINE=91100388; PubMed=1670938;
Allen B.L., Gerlach G.-F., Clegg S.;
Allen B.L., Gerlach G.-F., Clegg S.;
Nucleotide sequence and functions of mrk determinants necessary for expression of type 3 fimbriae in Klebsiella pneumoniae.";
J. Bacteriol. 173:916-920(1991).
I. PUNCTION: APPEARS TO AFFECT THE STABILITY OF THE INTACT FIMBRIAE
ON THE CELL SURRACE.
I. SUBCELLULAR LOCATION: Fimbria.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
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AC 059936,
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
BE 40S ribosomal protein $12.
CN RPS12 OR ERRPI.
CN RPS12 OR ERRPI.
COS Erysiphe grammins (subsp. hordei) (Grass mildew) (Blumeria grammins OS (subsp. hordeix)).
CC Eukaryota; Fungi; Ascomycota; Pezizomycotina; Leotiomycetes;
CN RPSI—TaxID=62688;
RN [1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bacteria; Proteobacteria, Gammaproteobacteria; Enterobacteriales;
Enterobacteriaceae; Klebsiella.
NCBI_TaxID=573;
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                                  Length 128,
                                  61.5%; Score 24; DB 1; Length 128
66.7%; Pred. No. 3.9e+02;
ive 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   132 AA; 14531 MW; 1C821B681912BC1A CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-WAY-1991 (Rel. 18, Created)
01-WAY-1991 (Rel. 18, Last sequence update)
01-AUG-1991 (Rel. 19, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         InterPro, IPR008966; Adhes_bact.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EMBL; M55912; AAA25097.1; -. PIR; F39142; F39142.
Ouery Match
Best Local Similarity 66./v
                                                                                                                                                                                                                                                                                                                                                                                                                                           STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Klebsiella pneumoniae.
                                                                                                                                                                                                                                 | | ||:
68 LERDGV 73
                                                                                                                                                                                  1 LEHDGI 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                           KLEPN
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SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                 RESULT 42
MRKF_KLEPN
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STRAIN=M90T / Serotype 5; PLASMID=PWR100;
MEDLINE=20566792; PubMed=11115111;
MEDLINE=20566792; PubMed=11115111;
Ruchtieser C., Glaser P., Rusnick C., Nedjari H., d'Hauteville H.,
Kunst F., Sansonetti P., Parsot C.;
"The virulence plasmid pWR100 and the repertoire of proteins secreted
"The type III secretion apparatus of Shigella flexneri.";
Mol. Microbiol. 38:760-771(2000).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
STRAIN=M90T / Serotype 5; PLASMID=pWR100;
MEDLINE=21189246; PubMed=11292750;
Wenkatesan M.M., Goldberg M.B., Rose D.J., Grotbeck E.J., Burland V.,
Blattner P.R.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
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"Surface presentation of Shigella flexneri invasion plasmid antigens
"Surface presentation of the spa locus.";
T. Bacteriol. 174:1990-2001(1992).
                                                                                                                                                         Zhang Z.G., Gurr S.J.;
Submitted (APR-1998) to the EMBL/GenBank/DDBJ databases.
-!- SIMILARITY: Belongs to the S12E family of ribosomal proteins.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Shigella flexneri.
Plasmid pWR100, Plasmid pWYSH6000, and Plasmid pCP301.
Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
Enterobacteriaceae; Shigella.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ;
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01-JUN-1994 (Rel. 29, Last sequence update)
10-OCT-2003 (Rel. 42, Last annotation update)
Surface presentation of antigens protein spak (Spals protein)
SPAK OR SPALS OR CP0148.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 132;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61.5%; Score 24; DB 1; Length 132 ilarity 66.7%; Pred. No. 4.1e+02; Conservative 1; Mismatches 1; Indels
                                       Zhang Z., Gurr S.J.;
Submitted (MAR-1998) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ribosomal protein.
SEOUENCE 132 AA; 14632 MW; 91F3F48DA07917B4 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STRAIN=M90T / Serotype 5; PLASMID=pWR100; MEDLINE=92193289; PubMed=1312536;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       InterPro; IPR004038; Ribosomal_L7A.
InterPro; IPR00530; Ribosomal_S12e.
Pfam, PF01248; Ribosomal_L7Ae; I.
PRINTS; PR00972; RIBSOWALE12E.
PROSITE; PS01189; RIBOSOMAL_S12E; I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EMBL; AF052483; AAC15834.1; -. EMBL; AF061259; AAC15802.1; -.
                                                                                                                                       SEQUENCE OF 12-132 FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
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   FROM N.A.
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P35530;
   SEQUENCE
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SPAK, SHIFL
DE NITEL
DT 01-JUN
DT 01-JUN
DT 10-OCT
DE SULFAC
GN Shigel
OC SHIFL
OC SHIPL
OC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Yu J.;
"Genome sequence of Shigella flexneri 2a: insights into pathogenicity
"Genome comparison with genomes of Escherichia coli K12 and O157.";
hucleic Acids Res. 30:4432-4441(2002).
-!- FUNCTION: REQUIRED FOR SURFACE PRESENTATION OF INVASION PLASMID
ANTIGENS. COULD PLAY A ROLE IN PRESENVING THE TRANSLOCATION
COMPETENCE OF THE IPA ANTIGENS.
-!- SIMILARITY: BELONGS TO THE SPAK FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                     STRAIN=301 / Serotype 2a; PLASMID=pCP301;
MEDLINE=22272406; PubMed=12384590;
Jin O., Yuan Z., Xu J., Wang Y., Shen Y., Lu W., Wang J., Liu H.,
Yang J., Zhang X., Zhang Y., Zhang J., Yang G., Wu H., Qu D., Dong J.,
Sun L., Xue Y., Zhao A., Gao Y., Zhu J., Kan B., Ding K., Chen S.,
Cheng H., Yao Z., He B., Chen R., Ma D., Qiang B., Wen Y., Hou Y.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
the large virulence plasmid
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Enterobacteriaceae; Shigella.
NCBI_TaxID=624;
[1]
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                                                                                                                  SEQUENCE FROM N.A.
STRAIN-STROOD / Serotype 2a, PLASMID-PMYSH6000;
MEDLINE-99224456; PLDMed-838566;
Sasakawa C., Komatsu K., Tobe T., Suzuki T., Yoshikawa M.;
Sasakawa C. Romatsu K., Tobe T., Suzuki T., Yoshikawa M.;
"Eight genes in region S that form an operon are essential for invasion of epituhial cells by Shigella flexneri 2a.";
J., Bacteriol. 175:2334-2346(1993).
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SPAK SHISO
1D SPAK SHISO
AC 055206;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 28-FEB-2003 (Rel. 41; Last annotation update)
DE Surface presentation of antigens protein spak (Spal5 protein)
OS Shigella sonnei.
OS Plasmid.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL; MB1458; AAAC6840.1; -
EMBL; AB1458; AAAC6840.1; -
EMBL; AB348706; AAX18467.1; -
EMBL; AB3631 EAAC6824.1; -
EMBL; AF38622; AAX12308.1; -
EMBL; AF3862308.1; -
EMBL; AF3
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sequence and analysis of
                                                            nfect. Immun. 69:3271-3285(2001)
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Best Local Similarity
Matches 4; Conserv
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SEQUENCE FROM
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This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
SEQUENCE FROM N.A.

Arakawa E., Kato J.I., Ito K.I., Watanabe H.;

Arakawa E., Kato J.I., Ito K.I., Watanabe H.;

"Comparison and high conservation of nucleotide sequences of spa-mxi regions between S. sonnei and S. flexneri -- identification of a new gene coding plausible membrane protent.";

sibmitted (MAY-1995) to the EMBJ/Genhank/DDBJ databases.

-!- FUNCTION: REQUIRED FOR SURFACE PRESENTATION OF INVASION PLASMID ANTIGENS. COULD PLAY A ROLE IN PRESERVING THE TRANSLOCATION COMPETENCE OF THE IPA ANTIGENS.

-!- SIMILARITY: BELONGS TO THE SPAK FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cuery Match 61.5%; Score 24; DB 1; Length 133; Best Local Similarity 100.0%; Pred. No. 4.1e+02; Matches 4; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                        EMBL; D50601; BAA09157.1; ...

InterPro; DPR003065; Invas SpaK.

Pfam; PF03519; Invas SpaK; 1.

PRINTS; PR01305; SSPÄKPROTEIN.

PRODOM; PD016047; Invas SpaK; 1.

SEQUENCE 133 Aa; 15188 MW; EA8F173A85A002B1 CRC64;
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Gaps

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Search completed: June 15, 2004, 12:23:19 Job time : 12 secs

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QBulm7 pyrococcus
Q9fte4 oryza sativ
Q8fte4 oryza sativ
Q8xb6 raletonia s
Q9xz6 vibrio chol
Q8bb1 xanthomonas
Q8uy1 gallus gall
Q912k5 streptomyce
Q8dqr6 streptomyce
Q8dqr6 streptomyce
Q8dqr6 streptomyce
Q8dqr8 oryza sativ
Q91555 fowlpox vir
Q91557 helicoverpa
Q9ex15 helicoverpa
Q9ex15 helicoverpa
Q9ex15 helicoverpa
Q9ex15 helicoverpa
Q8cxe3 escherichia
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                                                         / Search time 40 Seconds
(without alignments)
55.216 Million cell updates/sec
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GenCore version 5.1.6
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                                                                                                                                                                        1017041 segs, 315518202 residues
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Maximum Match 100%
Listing first 45 summaries

    protein search, using sw model

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Q9FTE4
Q8BT59
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Q8FX26
Q9FRA1
Q8DWJ1
Q9L2K5
Q9DZK5
Q9DQP6
Q9L2K5
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Q9IFI9
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sp_virus:*
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ALIGNMENTS

RESULT 1

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64 AA.

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SEQUENCE FROM N.A.
SPRANIE-27BL/GAJ TISSUE-Body;
STRAINE-27BL/GAJ TISSUE-Body;
The PANTOM Consortium,
The FANTOM Consortium,
The RIKEN Genome Exploration Research Group Phase I & II Team;
The RIKEN Genome Exploration Research droup Phase I will Team;
"Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs.";
Nature 420:563-573(2002).
NATURE 420:563-573(2002).
NOW_TER AND 17692;
                                                                                                            Ol-MAR-2003 (TrEMBLrel. 23, Created)
Ol-MAR-2003 (TrEMBLrel. 23, Last sequence update)
Ol-MAR-2003 (TrEMBLrel. 23, Last annotation update)
Ol-MAR-2003 (TrEMBLrel. 23, Last annotation update)
Junction cell adhesion molecule 3 (Fragment).
Mus musculus (Mouse).
Mus musculus (Mouse).
Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
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                                                                                        PRELIMINARY;
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41 KHDGVN 46
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QBXSB6;
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Q8BT59;
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Archaea; Euryarchaeota; Thermococci; Thermococcales; Thermococcaceae;
Pyrococcus.
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01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
00-OCT-2002 (TrEMBLrel. 22, Last annotation (Tracheophyta; Entracheophyta; Magnoliophyta; Entracheophyta; Entracheophyta; Doales; Poaceae;
00-OCT-2001 (TrEMBLrel. 22, Last annotation update)
00-OCT-2002 (TrEMBLrel. 22, Last annotation update)
00-OCT-2002 (TrEMBLrel. 22, Last annotation update)
00-OCT-2002 (TrEMBLrel. 22, Last annotation update)
00-OCT-2002 (TrEMBLrel. 22, Last annotation update)
00-OCT-2002 (TrEMBLrel. 22, Last annotation update)
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Sasaki T., Matsumoto T., Yamamoto K.;
"Oryza sativa nipponbare(GA3) genomic DNA, chromosome 1, PAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
STRAIN=cv. Nipponbare;
Sasaki T., Matsumoto T., Yamamoto K.;
Sasaki T., Matsumoto T., Yamamoto K.;
Cryas sativa nipponbare(GA3) genomic DNA, chromosome 1, PAC clone:P0494A10.";
Submitted (UUN-2000) to the EMBL/GenBank/DDBJ databases.
EMBL; AP002868; BAB17146.1;
EMBL; AP002541; BAB55483.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             STRAIN=Vol / DSW 3638 / ATCC 43587 / JCM 8422;
Weiss R.B., Dunn D.M., Robb F.T., Brown J.R.;
"The complete sequence of the Pyrococcus furiogus genome.";
Submitted (FEB-2002) to the EMBL/GenBank/DDBJ databases.
BMBL, ABC10226; AAL61303.1. -
Hypothetical protein; Complete proteome.
SEQUENCE 67 AA, 7561 WW; 591FEID4A09AF560 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         79.5%; Score 31; DB 17; Length 67; 83.3%; Pred. No. 56; tive 1; Mismatches 0; Indels
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Submitted (SEP-2000) to the EMBL/GenBank/DDBJ databases.
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                                                                                                                      01-JUN-2002 (TYEMBLrel. 21, Created)
01-JUN-2002 (TYEMBLrel. 21, Last sequence update)
01-JUN-2003 (TYEMBLrel. 23, Last annotation update)
Hypothetical protein PF1179.
                                                              67 AA
                                                              PRT;
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Best Local Similarity 100.
Matches 5, Conservative
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Best Local Similarity 83.3
Matches 5; Conservative
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LEHDGL 46
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RESULT 2
Q8U1M7
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MEDLINE=21681879; PubMed=11823852;
MEDLINE=21681879; PubMed=11823852;
Salanoubat M., Genin S., Artiguenave F., Gouzy J., Mangenot S., Arlat M., Billault A., Brottier P., Camus C., Cattolico L., Chandler M., Choisne M., Claudel-Renard C., Cunnac S., Demange N., Gaspin C., Lavie M., Moisan A., Robert C., Saurin W., Schiex T., Gaspin C., Lavie M., Malen M., Wincker P., Levy M., Weissenbach J., Boucher C.A.; Physical Schies For Meissenbach J., Boucher C.A.; pathogen Ralstonia solanacearum."; Mature 415:497-502(2002).
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Burkholderiaceae; Ralstonia.
Query Match

Pest Local Similarity 66.7%; Pred. No. 87;

Matches 4; Conservative 2; Mismatches 0; Indels
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Rest Local Similarity 83.3%; Pred. No. 1.1e+02;
Matches 5; Conservative 1; Mismatches 0; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                               01-WAR-2002 (TrEMBLrel. 20, Created)
01-WAR-2002 (TrEMBLrel. 20, Last sequence update)
01-UNA-2003 (TrEMBLrel. 24, Last annotation update)
Hypothetical protein RSp0562.
RSp0562 OR RS03916.
Ralstonia solanacearum (Pseudomonas solanacearum).
Plasmid megaplasmid.
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us-09-394-019c-212.rspt

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STRAIN=EI Tor Nis6961 / Serctype O1;
STRAIN=EI Tor Nis6961 / Serctype O1;
Heidelberg J.F., Eisen J.A., Nelson W.C., Clayton R.A., Gwinn M.L.,
Heidelberg J.F., Eisen J.A., Nelson W.C., Clayton R.A., Gwinn M.L.,
Dodson R.J., Haft D.H., Hickey E.K., Peterson J.D., Umayam L.A.,
Eilson R.J., Peterson J.D., Namathevan D.,
Ermolaeva M.D., Vamathevan J., Bass S., Oin H., Bragol I., Sellers P.,
McDonald L., Utterback T., Fleischmann R.D., Nierman W.C., White O.,
Salzberg S.L., Smith H.O., Colwell R.R., Mekalanos J.J., Venter J.C.,
Fraser C.M.;
"DNA sequence of both chromosomes of the cholera pathogen Vibrio
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STRAIN-ATCC 33913 / NCPPB 528;
MEDLINE-22022145; PubMed=12024217;
MEDLINE-22022145; Furb of 3.A., Reinach F.C., Farah C.S., Furlan L.R., Quaggio R.B., Monteiro-Vitorello C.B., Van Sluys M.A., Almeida N.F., Alves L.M.C., do Amaral A.M., Bertollini M.C., Camarogi L.E.A. Camarotte G., Cannavan R., Cardozo J., Chambergo F., Ciapina L.P., Cicarelli R.M.B., Coutinho L.L., Cursino-Santos J.R., El-Dorry H., Farial J.B., Ferreira A.J.S., Perreira R.C.C., Ferro M.I.T., Formighieri E.F., Franco M.C., Greggio C.C., Gruber A., Katsuyama A.M., Kishi L.T., Leite R.P., Lemos B.G.M., Lemos M.V.F.,
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Bacteria; Proteobacteria; Gammaproteobacteria; Xanthomonadales;
Xanthomonadaceae; Xanthomonas.
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Vibrionaceae; Vibrio.
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EMBL; AE004226; AAF94642.1; -.

PIR; H82194; H82194.

TIGR; VC1487; ---

Hypothetical protein; Complete proteome.

SEQUENCE 80 AA; 9275 MW; F6B667C37C4F6892 CRC64;
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01-007-2002 (TrEMBLrel. 22, Last sequence update)
10-007-2002 (TrEMBLrel. 22, Last annotation update)
HrpD6 protein.
HRPD6 OR XCC1222.
                                                                                                                                                                                                                                                                                                                                               01-OCT-2000 (TrEMBLrel. 15, Created)
1-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-UTN-2003 (TrEMBLrel. 24, Last annotation update)
Hypothetical protein VC1487.
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71 LKHNGIN 77
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                                                                                          56 LEHDGM 61
                              1 LEHDGI 6
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Vibrio cholerae.
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Q8PBA1
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Locall E.C., Machado M.A., Madeira A.M.B.N., Martinez-Rossi N.M., Martines B.C., Maidanis J., Menck C.F.M., Miyaki C.Y., Moon D.H., Pereira L.M., Novo M.T., A. Okura V.K., Oliveira M.C., Oliveira V.R., Seria H.A., Rossi A.M., A. Okura V.K., Oliveira M.C., Oliveira V.R., Spinola L.A.F., Takita M.A., Tamura R.B., Teixeira B.C., Tezza R.I.D., Stubal J.C., Kitajima J.P., Tamira R.B., Teixeira B.C., Tezza R.I.D., Scubal J.C., Kitajima J.P., Tamira R.B., Mitte F.F., Setubal J.C., Kitajima J.P., Ramira R.B., Mitte F.F., Martine R.P., Mitte F.F., Setubal J.C., Kitajima J.P., Tamira R.B., Teixeira B.C., Tezza R.I.D., Setubal J.C., Kitajima J.P., Tamira R.B., Teixeira B.C., Tezza R.I.D., Setubal J.C., Kitajima J.P., Tamira R.B., Teixeira B.C., Tezza R.I.D., Nature 417:459-463(2002).

BKBL, A.M. SEDIZIA, A.M. SEDIZIA A.M., B723B262314DAILE CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bcl-x (Fragment).
Gallus gallus (Chicken).
Ebkaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Archosauria; Avez; Neognathae; Galliformes; Phasianidae; Phasianinae;
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A Shi Z., Onagdesan O.M., Williams J.;

A Shi Z., Onagdesan O.M., Williams J.;

Submitted (OCT-2001) to the EMBL/GenBank/DDBJ databases.

EMBL, AR43211, AA135159.1.

EWGO, GO:0016329; F:apoptosis; requiator activity; IEA.

GO; GO:0016329; F:apoptosis; red.

InterPro; IPR000475; BCL2_family.

Pfam; PR00452; BCL2_family.

Pfam; PR00451; BCL2, 1.

SWART; SW00337; BCL2.

PROSITE; PS50062; BCL2_FAMILY; 1.

PROSITE; PS50062; BCL2_FAMILY; 1.

PROSITE; PS01269; BHJ; 1.
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76.9%; Score 30; DB 13; Length 85
Best Local Similarity 71.4%; Pred. No. 1.36+02;
Matches 5; Conservative 1; Mismatches 1; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01 MAR-2002 (TrEMBLrel. 20, Created)
01-MAR-2002 (TrEMBLrel. 20, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
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Q9L2K5;
Q1-OCT-2000 (TrEMBLrel. 15, Created)
O1-OCT-2000 (TrEMBLrel. 15, Last sequence update)
O1-MAR-2003 (TrEMBLrel. 23, Last annotation update)
Hypothetical protein SCO0699.
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Best Local Similarity 100...
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ö SEQUENCE FROM N.A.
MEDINE-2192045; PubMed=11544234;
MEDINE-2192045; PubMed=11544234;
Hokins J., Alborn W.E. Jr., Arnold J., Blaszczak L.C., Burgett S., DeHoff B.S., Estrem S.T., Fritz L., Fu D.-J., Fuller W., Geringer C., Gilmour R., Glass J.S., Khoja H., Kraff A.R., Lagace R.B.,
Molanour R.J., Lee L.M., Lefkowitz E.J., Lu J., Matsushima P.,
McAhren S.M., McHenney M., McLeaster K., Mundy C.W., Nicas T.I.,
Nortis F.H., O'Gara M., Peery R.B., Robertson G.T., Rockey P.,
Son P.-M., Winkler M.E., Yang Y., Young-Bellido M., Zhoo G.,
Zook C.A., Baltz R.H., Jaskunas S.R., Rosteck P.R. Jr., Skatrud P.L., STRAIN-A3(2) / M45;

MEDLINE=21996410; PubMed=12000953;

Bentley S.D., Chater K.F., Cerdeno-Tarraga A.-M., Challis G.L.,

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Cronin A., Fraser A., Goble A., Hidalgo J., Hornsby T., Howarth S.,

Huang C.-H., Kieser T., Larke L., Murphy L., Oliver K., O'Neil S.,

Rabbinowitsch B., Rajandram M.A., Rutherford K., Rutter S.,

Seeger K., Saunders D., Sharp S., Squares R., Squares S., Taylor K.,

Warren T., Wietzorrek A., Woodward J., Barrell B.G., Parkhill J., Gaps A Glass J.I.;

"Genome of the bacterium Streptococcus pneumoniae strain R6.";

J. Bacteriol. 183:5709-5717(2001).

B. Bacteriol. 183:5709-5717(2001).

R. Bacteriol. 183:5709-5717(2001).

R. Brit, ARC06432; AAK9933.1; -...

R. GO, GO:0005224; F:ATP binding; IEA.

GO, GO:000610; F:ATP-binding cassette (ABC) transporter acti...;

R. GO, GO:000610; F:ATP-binding cassette (ABC) transporter acti...;

R. GO, GO:000610; F:ATP-binding cassette (ABC) transporter acti...;

R. GO, GO:000610; F:ATP-binding cassette (ABC) transporter acti...;

R. GO, GO:000610; ABC_transporter.

R. Ffam; PF00005; ABC_transporter.

R. ProDom; PD00006; ABC_transporter.

R. ProDom; PD00006; ABC_TRANSPORTER.1; 1. "Complete genome sequence of the model actinomycete Streptomyces coelicolor A3(2).";
Nature 417:141-147(2002).
EMBL, A193910.6, CAB65671.1; -.
Hypothetical protein; Complete proteome.
SEQUENCE 97 AA; 10089 MW; 4CFD924E273194F5 CRC64; ö Streptomyces coelicolor.

Bacteria Actinobacteria, Actinobacteridae, Actinomycetales, Streptomycineae, Streptomycetaceae, Streptomyces. . Match
Local Similarity 83.3%; Pred. No. 1.4e+02;
es 5; Conservative 1; Mismatches 0; Indels QBDQR6; 01-WAR-2003 (TrEMBLrel. 23, Created) 01-WAR-2003 (TrEMBLrel. 23, Last sequence update) 01-0CT-2003 (TrEMBLrel. 25, Last annotation update) ABC transporter ATP-binding protein-glutamine, truncation. GLNQ-TRUNCATION OR SPR0535. Streptococcus pneumoniae (strain ATCC BAA-255 / R6). Bacteria, Firmicutes, Lactobacillales, Streptococcaceae, PRELIMINARY; SCO0699 OR SCF42.09C 35 LDHDGI 40 NCBI_TaxID=171101; 1 LEHDGI 6 FROM N.A Hopwood D.A.; ATP-binding; [1] SEQUENCE 1 Query Match Q8DQR6 Best Loc Matches RESULT 10
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Viruses; dsDNA viruses, no RNA stage; Poxviridae; Chordopoxvirinae;
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Bukaryota, Viridiplantae, Streptophyta, Embryophyta, Tracheophyta,
Spermatophyta, Magnoliophyta, Liliopsida, Poales, Poaceae,
Ehrhartoideae, Oryzeae, Oryza.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.

Afonso C.L., Tulman E.R., Lu Z., Zsak L., Kutish G.F., Rock D.L.;
Submitted (OCT-1999) to the EMBL/GenBank/DDBJ databases.

EMBL, AF198100; AAF44410.1; -.

Hypothetical protein.

SEQUENCE 122 AA; 14797 MW; 908629B0DB871662 CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 76.9%; Score 30; DB 12; Length 122; Best Local Similarity 71.4%; Pred. No. 1.8e+02; Matches 5; Conservative 2; Mismatches 0; Indels
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Score 30; DB 16; Length 11
Pred. No. 1.7e+02;
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STRALM-ECV. NIPPONDATE;
SABAKI T., Mateumoto T., Katayose Y.;
"Oryza sativa nipponbare(GA3) genomic DNA, chromosome 1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   clone:B1011A07...;
Submitted (UUN-2001) to the EMBL/GenBank/DDBJ databases.
EMBL; AP003722; BAB92766.1; -. Gramene: Q8LQ98; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           136 AA; 14422 MW; 07F19447102FD19D CRC64;
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01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
ORP FPV066 hypothetical protein.
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Pred. No. 2e+02;
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Best Local Similarity 71.4
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Best Local Similarity
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NCBI_TaxID=10261;
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Length 114;

76.9%; 71.4%;

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Matches 4; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
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g ö Robertson A.P.S.; "Geneiro of Helicoverpa zea nuclear polyhedrosis virus in "Geneiro organization of Helicoverpa zea nuclear polyhedrosis virus in the region of EcoRI U.D.L.A and Q."; Submitted (JUN-2000) to the EMBL/GenBank/DDBJ databases. Gaps nucleopolyhedrovirus."; Sheng Wu Hua Hsueh Yu Sheng Wu Wu Li Hsueh Pao 33:179-184(2001) ; 0 STRAIN=C1;
PubMed=12050807;
Zhang C.X., Wu J.C.;
"Genome structure and the pl0 gene of the Helicoverpa armigera Length 142; Q9E215
Q9E215;
01-MAR-2001 (TEMBLE) 16, Created)
01-MAR-2001 (TEMBLE) 16, Last sequence update)
01-MAR-2002 (TEMBLE) 20, Last annotation update)
01-MAR-2002 (TEMBLE) 20, Last annotation update)
01-MAR-2002 (TEMBLE) 20, Last annotation update)
01-MAR-2002 (TEMBLE) 20, Last annotation update)
VICTASE 11ke protein (ORF129).
Helicoverpa zea single nucleocapsid nucleopolyhedrovirus.
Viruses; dspM viruses, no RNA stage; Baculoviridae; Cuery Match
Best Local Similarity 100.0%; Pred. No. 2.1e+02;
Matches 5; Conservative 0; Mismatches 0; Indels Zhang C.X., Jin W.R.; Submitted (SEP-2000) to the EMBL/GenBank/DDBJ databases. EMBL; AR303045; AR46369.1; -. Hypothetical protein. SEQUENCE 142 AA; 16036 MW; 45D3B55DAE934C82 CRC64; 01-DEC-2001 (TrEMBirel. 19, Created)
01-DEC-2001 (TrEMBirel. 19, Last sequence update)
01-OCT-2003 (TrEMBirel. 25, Last annotation update)
Hypothetical protein.
Helicoverpa armigera nuclear polyhedrosis virus.
Viruses, daDNA viruses, no RNA stage; Baculoviridae;
Nucleopolyhedrovirus. 142 AA 121 VSHDGVN 127 1 LEHDGIN 7 SEQUENCE FROM N.A. SEQUENCE FROM N.A. SEQUENCE FROM N.A. FROM N.A. 60 HDGIN 64 NCBI_TaxID=10468; 3 HDGIN 7 STRAIN=C1; [2] SEQUENCE RESULT 13 RESULT 14 **09E215** à à

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MEDLINE=20033815; PubMed=10564750;
Chen X., 1kel W.F., Dominy C., de Andrade Zanotto P.M., Hashimoto Y.,
Krell P.J., Hu Z., Vlak J.M.;
Krell P.J., Hu Z., Vlak J.M.;
Mathavan S.,
Krell P.J., Hu Z., Vlak J.M.;
Helicoverpa armigera single-nucleocapsid baculovirus:";
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MEDLINE=21078302; PubMed=11210934;
Mang H., Chen X., Wang H., Arif B.M., Vlak J.M., Hu Z.;
"Nucleotide sequence and transcriptional analysis of a putative basic DNA-binding protein of Helioverpa armigera polyhedrovirus.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SPECIES-Helicoverpa armigera nuclear polyhedrosis virus;
Long G., Chen X., Vlak J.M., Hu Z.;
"Genetic organization of the HindIII-I region of Helicoverpa armigera
single-nucleocapsid nucleopolyhedrovirus.";
Submitted (MAY-2000) to the EMBL/GenBank/DDBJ databases.
                                      Gaps
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SPECIES=Heliocoverpa armigera nucleopolyhedrovirus G4;
Deng F., Chen X., Vlak J.M., Arif B.M., Hu Z.;
"Sequence analysis of the gp37 gene of Heliothis armigera single-nucleocapaid nucleopolyhedrovirus.";
Zhongguo Bingduxue 15:35-42(2000).
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Wang H., Hu Z., Sun X., Vlak J.M., Chen X.;
Sequence analysis of the lap3 gene of Heliothis armigera single-nucleocopsid nucleocopyhedrovirus.";
Zhongguo Bingduxue 15:43-49(2000).
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   Length 144;
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PubMed=11125177;
                                                                                                                                                                                                                                 01-027-2000 (TrEMBLrel. 15, Created)
01-027-2000 (TrEMBLrel. 15, Last sequence update)
01-037-2003 (TrEMBLrel. 25, Last annotation update)
01-037-2003 (TrEMBLrel. 25, Last annotation update)
Helicoverpa armigera nuclear polyhedrosis virus, and Helicoverpa armigera nuclear polyhedrovirus G4.
Nutuses, daDNA viruses, no RNA stage; Baculoviridae;
76.9%; Score 30; DB 12; I 100.0%; Pred. No. 2.2e+02; ive 0; Mismatches 0;
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   Query Match 76.9
Best Local Similarity 100.
Matches 5; Conservative
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Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
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1 1 1 SEQUENCE 55 AA; 6083 MW; 69886E17147DC94E CRC64;
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59 59
59 AA; 263284C9F573D36B CRC64;
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01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-DCT-2003 (TrEMBLrel. 25, Last annotation update)
Fibroblast growth factor receptor 2 (Fragment).
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49 LKHSGIN 55
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      Mammalia; Eutheri
NCBI_TaxID=10116;
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04766 AC 04766
DT 01-NO
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Q95KU8
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SEQUENCE FROM N.A.

CTT073 / ATCC 700928;

MEDLINE=22388234; PubMed=1247157;

MEDLINE=22388234; PubMed=1247;

MEDLINE=22388234; MEDLINE

MEDLINE=2388234; PubMed=1247;

MEDLINE=2388234; MEDLINE

MEDLINE=2888234; MEDLINE

MEDLINE=2388234; 4; MEDLINE

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Q99UC7;
Q1-UTN-2001 (TrEMBLrel. 17, Created)
01-UTN-2001 (TrEMBLrel. 17, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
Schuble fibroblast growth factor receptor IIIb (Fragment).
SKGF-R.
Rattus norvegicus (Rat).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bacteria; Protecbacteria; Gammaprotecbacteria; Enterobacteriales;
Enterobacteriaceae; Escherichia.
NCBI_TaxID=217992;
      SPECIES-Heliocoverpa armigera nucleopolyhedrovirus G4;
Chen X., IJkel W.F., Tarchini R., Sun X., Sandbrink H., Wang H.,
Peters S., Zuidema D., Lankhorst R.K., Vlak J.M., Hu Z.;
Submitted (MAY-2000) to the EMBL/GenBank/DDBJ databases.
EMBL, AF266697, AAF789401;
EMBL, AF266697, AAF789401;
Hypothetical protein.
SEQUENCE 144 AA, 16115 MW, A3816C6476506D2A CRC64;
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76.9%; Score 30; DB 12; Length 144;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 5; Conservative 0; Mismatches 0; Indels
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01-WAR-2003 (TrEMBLrel. 23, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
Prepilin peptidase dependent protein D precursor.
PRODD OR C0127.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             146 AA
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Best Local Similarity 71.4
Matches 5; Conservative
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08CWE3
AC Q8CWE3;
DT 01-MAR.;
DT 01-OCT.;
DE PREPILING
CS BACTECTION
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2099CC7
AC Q99JC
DT 01-JU
DT 01-JU
DT 01-SCIUB
CS SKGF-
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               SOWRER
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TISSUE=Placenta;
Berisha B.A., Schams D.;
"Expression of fibroblast growth factor family in the bovine placenta
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Sukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea;
Bovidae; Bovinne; Bos.
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SEQUENCE FROM N.A.
STRAIN=Wistar; TISSUE=Testis;
Konrad L.;
Konrad L.;
Submitted (APR-2001) to the EMBL/GenBank/DDBJ databases.
BUBL; AJ312745; CAC37408.1;
GQC; GO:004872; F:receptor activity; IEA.
InterPro; IPR007110; IG-like.
                                                                                                                                                                                                                                                                                  Query Match 74.4%; Score 29; DB 11; Length 55; Best Local Similarity 71.4%; Pred. No. 1.2e+02; Matches 5; Conservative 1; Mismatches 1; Indels
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74.4%; Score 29; DB 6; Length 59;
Best Local Similarity 71.4%; Pred. No. 1.3e+02;
Matches 5; Conservative 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           during the pregnancy..;
Submitted (NOV-2001) to the EMBL/GenBank/DDBJ databases.
EMBL, A4419173, CAD11602.1;
GO, GO:0004872; F:receptor activity; IEA.
InterPro; IPR007110; Ig-11ke.
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Gaps

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us-09-394-019c-212.rspt

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Luong T.T., Shu O., Bush K., Lee C.Y.;
"The Typel Cappular Polysaccharide of Staphylococcus aureus is carried
in a Staphylococcal Cassette Chromosome Genetic Element.";
submitted (NOV-2001) to the EMBL/GenBank/DDBJ databases.
EMBL, 010927; AALISGEB.1; --
Hypochetical protein.
SEQUENCE 73 AA; 8313 MW; 11766B088F91B37C CRC64;
                                                                                                                                                                                                                                                                                                            01-0CT-2002 (TrEMBirel. 22, Created)
01-0CT-2002 (TrEMBirel. 22, Last sequence update)
01-0CT-2002 (TrEMBirel. 22, Last annotation update)
Hypothetical protein CT1395.
CT1995.
Chlorobium tepidum.
Bacteria; Chlorobi; Chlorobia; Chlorobiales; Chlorobiaceae;
                                                                                                                        Query Match 74.4%; Score 29; DB 2; Length 73; Best Local Similarity 71.4%; Pred. No. 1.7e+02; Matches 5; Conservative 1; Mismatches 1; Indels
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50 LEHEAIN 56
                                                                                                                                                                                     1 LEHDGIN 7
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SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                     Chlorobium.
STRAIN=M;
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Q838W3;
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                                          MEDLINE-85000719: pubMed=6207302;
Voshimura M., Inokuchi H., Ozeki H.;
"Identification of Transfer RNA Suppressors in Escherichia coli.";
J. Mol. Biol. 177:627-644(1984).
SEQUENCE FROM N.A.
MEDLINE-88118893; PubMed=2448476;
MEDLINE-88118893; PubMed=2448476;
MOMUNTA T., Fulita N., Ishhama A.;
"Nomura T., Fulita N., Ishhama A.;
"Nomura T., Fulita N., Ishhama A.;
"Nomura T. Signe in Escherichia coli: regulation at transcription and tRNA processing steps.";
"Mol. Biol. 197:659-670(1987).
ENBL; X04174; CAAZ77741; --
SEQUENCE 67 AA; 7308 MW; 57BBF7985FF84A31 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A. Shiokawa K., Emori Y.; Shiozaki C., Asano-Miyoshi M., Tashiro K., Shiokawa K., Emori Y.; Submitted (UUN-1994) to the EMBL/GenBank/DDBJ databases.
EMBL; D31760; BAS2058.1; -. GO; GO:0004972; F:recoptor activity; IEA.
InterPro; IPR007110; Ig-like.
                                                                                                                                                                                                                                                                                                                                                                                                                                01-JAN-1998 (TrEMBLrel. 05, Created)
01-JAN-1998 (TrEMBLrel. 05, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
Fibroblast growth factor receptor 2b (Fragment).
Xenopus laevis (African clawed frog).
Bukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;
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                                                                                                                                                                                                                                          74.4%; Score 29; DB 2; Length 67; 83.3%; Pred. No. 1.5e+02; tive 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Receptor.
1 1 1
NON TER 6 68
NON TER 6 68 SEQÜENCE 68 AA, 7561 MW, F4AE6489E37B1F07 CRC64;
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Last annotation update)
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093677.
01-DEC-2001 (TERMELrel. 19, Created)
01-DEC-2001 (TERMELrel. 19, Last sequence update)
01-OCT-2003 (TERMELrel. 25, Last annotation updat Hypothetical protein.
Bypothetical protein.
Batchylococcus aureus.
Batchia; Firmicutes; Bacillales; Staphylococcus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   73 AA.
                                                                                                                                                                                                                                                                                                                                                                                                          68 AA.
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Best Local Similarity 83.3
Matches 5; Conservative
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NCBI_TaxID=8355;
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LKHSGIN 12
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                                 SEQUENCE FROM N.A.
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   CBI_TaxID=562;
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0936F7
AC 0936F
AC 0936F
DT 01-DE
DT 01-OC
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OC Bacte
OX NCBI
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SCUENCE FROM N.A.

STRAIN=TLS / ATCC 49652 / DSM 12025;

KREDLINE-2103685; Pubmed=1203901;

RISELINE-2103685; Pubmed=1203901;

RISELINE-2103685; Pubmed=1203901;

RISELINE-2103685; Pubmed=1203901;

RISELINE-2103685; Pubmed=1.T., Heidelberg J.F., Wu M.,

Bisen J.A., Nelson K.E., Paulsen I.T., Heidelberg J.F., Wu M.,

Codson R.J., Deboy R., Gwinn M.L., Nelson W.C., Haft D.H.,

Hickey E.K., Peterson J.D., Durkin A.S., Kolonay J.L., Yang F.,

Hickey E.K., Peterson J.D., Durkin A.S., Kolonay J.L., Yang F.,

Nierman W.C., Feldblyum T.V., Hansen C.L., Craven M.B., Radune D.,

Nierman W.C., Tettelin H., Baryant D.A., Fraser C.M.,

The complete genome sequence of Chlorobium tepidum TLS, a

procopitete, anaerobic, green-sulfur bacterium.";

Proc. Natl. Acad. Sci. U.S.A. 99:9509-9514(2002).

RIGH; AE012897; AAM72623.1; -.

RIGH; CT1385, -.

RIGH; CT1385, -.

RIGH; CT1385, -.

RIGH; CT1385, -.

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Bacteria; Firmicutes; Lactobacillales; Enterococcaceae; Enterococcus.
NCBI_TaxID=1351;
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Pest Local Similarity 100.0%; Pred. No. 1.8e+02;
Matches 5; Conservative 0; Mismatches 0; Indels
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01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
Hypothetical protein.
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Query Match
Best Local Similarity 100...
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56 EHDGI 60
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Q860C5
ID Q860C
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10860C4
10 0860C
AC 0860C
DT 01-JU
DT 01-JU
DT 01-OC
DE MAC C
GN ACAR-
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STRAIN=V583 / ATCC 700802;

MEDLINE=22550857; PubMed=12663927;

Raulsen I.T., Banerjei L., Myers G.S.A., Nelson K.E., Seshadri R.,
Read T.D., Fouts D.E., Eisen J.A., Gill S.R., Heidelberg J.F.,
Tettellin H., Dodson R.J., Umayam L., Brinkac L., Beanan M.,
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Vamathevan J., Tran B., Upton J., Hansen T., Shetty J., Khouri H.,
Utterback T., Radune D., Ketchum K.A., Dougherty B.A., Fraser C.M.;
Finterococcus faecalis ",
Science 299:2071-2074(2003).
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Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Archosauria, Aves, Neognathae, Passeriformes, Sylviidae, Acrocephalus.
NCBI_TaxID=39621;
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Westerdahl H., Wittzell H., von Schantz T.;
Where class I typing of great reed warblers by motif-specific PCR and DGGE.";
Submitted (NOV-2001) to the EMBL/GenBank/DDBJ databases.
EMBL, AF449699; AR937625.1;
GQ; GQ:0016020; C:membrane; IEA.
GQ; GQ:0016020; C:membrane; IEA.
InterPro; IPR001039; MHC_I.
Pfam, PF00129; MHC_I.
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Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
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74.4%; Score 29; DB 7; Length 80;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 5; Conservative 0; Mismatches 0; Indels
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TIGR; EF0320; -.
Hypochetical protein; Complete proteome.
SEQUENCE 82 AA; 9049 MW; EECF70F37AE46120 CRC64;
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01-JUN-2003 (TrEMBLrel. 24, Created)
01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
MHC class I antigen (Fragment).
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01-503 (TrEWBLrel: 24, Created)
01-JUN-2003 (TrEMBLrel: 24, Last sequence update)
01-JUN-2003 (TrEMBLrel: 24, Last annotation update)
MHC Class I antigen (Fragment).
ACAR-UA.
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56 EHDGI 60
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SEQUENCE FROM N.A.
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Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Archosauria, Aves, Neognathae, Passeriformes, Sylviidae, Acrocephalus.
NCBI_TAXID=39621;
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Archosauria; Aves; Neognathae; Passerlformes; Sylviidae; Acrocephalus
NCBL TaxID=39621;
Archosauria, Aves; Neognathae, Passeriformes; Sylviidae, Acrocephalus.
NCBI TaxID=39621;
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SEQUENCE FROM N.A.
Westerdahl H., Wittzell H., von Schantz T.;
"MHC class I typing of great reed warblers by motif-specific FCR and
DGGE.";
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                                                                                              Westerdahl H., Wittzell H., von Schantz T.;
Westerdahl H., Wittzell H., von Schantz T.;
"MHC class I typing of great reed warblers by motif-specific DGGE";
Submitted (NOV-2001) to the EMBL/GenBank/DDBJ databases.
EMBL; AF449698; AAP37626.1; -.
NON_TER 8 8
SEQÜENCE 88 AA, 10101 MW; B575FB54EIC05723 CRC64;
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74.4%; Score 29; DB 7; Length 88;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 5; Conservative 0; Mismatches 0; Indels
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EMBL, AF449699; AAP37627.1; -..
GO; GO:0016020; C:membrane; IEA.
GO; GO:0016055; P:immune response; IEA.
InterPro; IPR001039; MHC_I.
Pfam; PF00129; MHC_I; 1.
NON_TER 1 1 1
NON_TER 88 88
SEQÜENCE 88 AA; 10095 MW; B7AFE336C0205727 CRC64;
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Q860C5;
01-JUN-2003 (TrEMBLrel. 24, Created)
01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
MHC class I antigen (Fragment).
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Q860C4;

O1-JUN-2003 (TrEMBLrel. 24, Created)

O1-JUN-2003 (TrEMBLrel. 24, Last sequence update)

MHC C1=2003 (TrEMBLrel. 25, Last annotation update)

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PRELIMINARY;
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1D 088PJ

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NCBI_TaxID=39621;
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NCBI_TaxID=39621;
SEQUENCE FROM N.A.
Westerdahl H., Wittzell H., von Schantz T.;
WHC class I typing of great reed warblers by motif-specific PCR and DGGS.";
Submitted (NOV-2001) to the EMBL/GenBank/DDBJ databases.
EMBL; AF449700; ABP37628.1;
GG; GO:0016020; C:membrans; IEA.
GG; GO:0006955; P:immune response; IEA.
InterPro; IPR001029; MHC_I;
PERM: PF00129; MHC_I;
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Westerdahl H., Wittzell H., von Schantz T.;
"MHC class I typing of great reed warblers by motif-specific PCR and DGGE.";
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SEQÜENCE 88 AA; 10095 MW; B7AFE336C0205727 CRC64;
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01-JUN-2003 (TEMBLrel. 24, Created)
01-JUN-2003 (TEMBLrel. 24, Last sequence update)
01-OCT-2003 (TEMBLrel. 25, Last annotation update)
MHC class I antigen (Fragment).
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56 EHDGI 60
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REPURDICE FROM N.A.

SEQUENCE FROM N.A.

STRAIN=306 / ATCC 13902 / XV 101;

RA SIURA-2202145; Pubmed=12024217;

RA Guaggio R.B., Monteiro-Vitorello C.B., Van Sluys M.A., Almeida N.F.,

RA Guaggio R.B., Monteiro-Vitorello C.B., Van Sluys M.A., Almeida N.F.,

RA Alves L.M.C. do Amaral A.M., Bertollini M.C., Camazago L.B.A.,

RA Alves L.M.C., do Amaral A.D.S., Ferreira R.C.C., Camazogo L.B.A.,

RA Grarelli R.M.B., Coutinho L.L., Cursino-Santos J.R., El-Dorry H.,

RA Faria J.B., Ferreira A.J.S., Ferreira R.C.C., Ferro M.I.T.,

RA Faria J.B., Faranco M.C., Greegio C.C., Gruber A.,

Formighiari B.F., Machdan M.A., Madeira A.M.B.N., Martinez-Rossi N.M.,

RA Katsuyama A.M., Kishi L.T., Leite R.P., Lemos E.G.M., Lemos M.V.F.,

RA Martins B.C., Machdan W.A., Mandeira A.M.B.N., Mayaki C.Y., Moon D.H.,

Martins B.C., Machdan J.M., Okura V.K., Oliveira M.C., Oliveira V.R.,

Moreira L.M., Novo M.T.M., Okura V.K., Oliveira M.C., Oliveira V.R.,

Spinola L.A.F., Takita M.A., Tanifi D., Tsai S.M., White F.F., Tezza R.I.D.,

RA Setubal J.C., Kitajima J.P.;

ROMPATION Of the genomes of two Xanthomonas pathogens with differing

RT Incare 417.459-463(202).

REDI-366, AMM37785.1; -.

REDI-36702 Froxidoreductase activity, acting on single d.., IEA.

GO; GO:0016491; F:oxidoreductase activity; IEA.

GO; GO:0016491; F:oxidoreductase activity; IEA.

GO; GO:0016491; F:oxidoreductase activity; IEA.

GO; GO:0016491; F:oxidoreductase activity; IEA.

ROMPATION IRRONSGO6; Rieske_dom.
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SEQUENCE FROM N.A.
MEDILINE=51296403; PubMed=1648704;
Champion-Arnaud P., Ronsin C., Gilbert E., Gesnel M.C., Houssaint E.,
Sheatchnach R.,
"Multiple mRNAs code for proteins related to the BEK fibroblast growth
factor receptor.";
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-077-2002 (TrEMBLrel. 22, Created)
01-077-2002 (TrEMBLrel. 22, Last sequence update)
01-077-2003 (TrEMBLrel. 24, Last annotation update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
BEDS OR XAC2940.
Xanthomonas axonopodis (pv. citri).
Matthomonas axonopodis (pv. citri).
Xanthomonadecae; Xanthomonads.
Xanthomonadecae: Xanthomonads.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 74.4%; Score 29; DB 4; Length 100; Best Local Similarity 71.4%; Pred. No. 2.3e+02; Matches 5; Conservative 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                109 AA.
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QBPIF8;
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QBPIF8
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01-0C7-2000 (TrEMBLrel. 15, Last sequence update)
01-0C7-2003 (TrEMBLrel. 25, Last annotation update)
01-0C7-2003 (TrEMBLrel. 25, Last annotation update)
Fibroblast growth factor receptor 2 IIIb (Fragment).
FGFR2IIIB.
Ovis aries (Sheep).
Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Bukaryota, Butheria, Cetartiodactyla, Ruminantia, Pecora, Bovoidea,
Bovidae, Caprinae, Ovis.
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MEDLINE=20411101; PubMed=10952944;
Chen C., Spencer T.E., Bazer F.W.;
Fibbroblast growth factor-10: A stromal mediator of epithelial function in the ovine uterus.";
Biol. Reprod. 63.959-966(2000).
EMBL; AF213309, AAF26719.1;
GO, GO:0004872; F:receptor activity; IEA.
InterPro; IPR007110; Ig-like.
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01-MAY-2000 (TREMBLrel. 13, Last sequence update)
01-077-2003 (TrEMBLrel. 25, Last annotation update)
Fibroblast growth factor receptor-related protein (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                         Length 97;
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Local Similarity 71.4%; Score 29; DB 6; Length 98;
Local Similarity 71.4%; Pred. No. 2.3e+02;
les 5; Conservative 1; Mismatches 1; Indels
                                                SEQUENCE FROM N.A.
TISSUB-Endometrium;
Weller H., Wollenhaupt K., Einspanier R.;
"RGF-system in porcine endometrium.";
Submitted (MAR-2002) to the EMBL/GenBank/DDBJ databases.
EMBL; A4439995; CAD291965.1; -.
GO; GO:0004872; F:receptor activity; IEA.
InterPro; IPR007110; IG-11ke.
                                                                                                                                                                                                                                                                   Receptor.
NON TER 1 1
NON TER 97 97 87 02C276B3248B7F91 CRC64;
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98 AA; 10767 MW; B372C276B3248B7F CRC64;
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71.4%; Pred. No. 2.3e+02;
tive 1; Mismatches 1;
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Matches 5, Conservative
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NCBI_TaxID=9823;
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NON_TER
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SEQUENCE
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Homo sapiens (Human).

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PRELIMINARY;
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SIGNING ACC 33913 / NCPPB 528;

STRAIN=ATCC 33913 / NCPPB 528;

MEDLINE:22022145; PubMed=12024217;

Ad Silva A.C.R., Ferro J.A., Reinach F.C., Farah C.S., Furlan L.R.,

A Alves L.M.C., do Amaral A.M., Bertolini M.C., Gamargo L.B.A.,

A Caracotte G., Cannavan F., Cardozo J., Chambergo F., Ciapina L.P.,

Cicarelli R.M.B., Coutinho L.L., Cursino-Santos J.R., El-Dorry H.,

Ratsuyama A.M., Kishi L.T., Gragdio C.C., Gruber A.,

Ratsuyama A.M., Kishi L.T., Leite R.P., Lemos E.G.M., Lemos M.V.F.,

A Locali E.C., Machado M.A., Madeira A.M. B.N., Martinez-Rossi N.M.,

Martinez E.C., Machadis J., Menck C.F., Myartinez-Rossi N.M.,

Amartinez E.C., Machadis J., Menck C.F., Miyaki C.Y., Moon D.H.,

Moreira L.M., Novo M.T.M., Okura V.K., Oliveira M.C., Oliveira V.R.,

Pereira H.A., Rossi A., Sena J.A.D., Silva C., de Souza R.F.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Bacteriophage phiEl25.
Viruses; deDNA viruses, no RNA stage; Caudovirales; Siphoviridae;
Lambda-like viruses.
VCBI_TaxID=180504;
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Bacteria; Proteobacteria; Gammaproteobacteria; Xanthomonadales;
Xanthomonadaceae; Xanthomonas.
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                                                                                                                                 74.4%; Score 29; DB 16; Length 109; 100.0%; Pred. No. 2.6e+02; tive 0; Mismatches 0; Indels
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74.4%; Score 29; DB 9; Length 117
Best Local Similarity 100.0%; Pred. No. 2.8e+02;
Matches 5; Conservative 0; Mismatches 0; Indels
   Pfam; PF00355; Rieske; 1.
Dioxygenase; Complete proteome.
SEQUENCE 109 AA; 12250 MW; 04024C66C2B5EA23 CRC64;
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01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
Hypotherical protein XCC0163.
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Q1-WAR-2002 (TrEMBLrel. 20, Created)
01-WAR-2002 (TrEMBLrel. 20, Last sequence update)
01-WAR-2002 (TrEMBLrel. 20, Last annotation update)
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Best Local Similarity 100.0
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Q8W6N9
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MEDLINE=22151066; PubMed=12019272;

MEDLINE=22151066; PubMed=12019272;

Basu S.S., Karbarz M.J., Raetz C.R.H.;

Expression Cloning and Characterization of the C28 Acyltransferase of Lipid A Blosynthesis in Rhizobium leguminosarum.";

J. Biol. Chem. 277:28959-28971(2002).

BMBL; AF510733; AAM44295.1; -.

Hypothetical protein.

SEQUENCE 124 AA; 13113 MW; 390E6F95F3CFB5E5 CRC64;
Spinola L.A.F., Takita M.A., Tamura R.E., Teixeira E.C., Tezza R.I.D., Trindade dos Santos M., Truffi D., Tsai S.M., White F.F., Setubal J.C., Kitajima J.F.;
Scomparison of the genomes of two Xanthomonas pathogens with differing host specificities.;
Nature 417:459-463 (2002).
BMBL, AB012112; AMN9482.1; -.
GO: GO:0005509; F:calcium ion binding; IEA.
InterPro; IPR002048; EP-hand.
Frâm; PF00008; efhand.
FROSTE; PS00018; EF-HAND; 3.
Hypothetical protein; Complete proteome.
SEQUENCE 117 AA; 12918 MW; DE9063ACBDF999B6 CRC64;
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(01-MAR-2001 (TrEMBLrel. 16, Created)
01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-MAR-2002 (TrEMBLrel. 22, Last annotation update)
Hypothetical protein.
Hypothetical protein.
Hypothetical protein.
Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia; Eutheria, Primates, Catarrhini, Hominidae, Homo.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .,
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01-0CT-2002 (TrEMBLrel. 22, Last sequence update)
01-0CT-2002 (TrEMBLrel. 22, Last annotation update)
01-0CT-2002 (TrEMBLrel. 22, Last annotation update)
Hypothetical protein.
Rhizobium leguminosarum (biovar viciae).
Bacteria, Proteobacteria; Alphaproteobacteria; Rhizobiales;
Rhizobiaceae; Rhizobium/Agrobacterium group; Rhizobium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 117;
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Best Local Similarity 100.0%; Pred. No. 3e+02;
Matches 5; Conservative 0; Mismatches 0; Indels
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74.4%; Score 29; DB 16; Length 11
Best Local Similarity 66.7%; Pred. No. 2.8e+02;
Matches 4; Conservative 2; Mismatches 0; Indels
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Gaps

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74.4%; Score 29; DB 5; Length 141; 100.0%; Pred. No. 3.4e+02; 1ve 0; Mismatches 0; Indels

Local Similarity 100.0

Query Match

NON TER 1 1 SEQUENCE 141 AA; 14893 MW; 09551B769BB01430 CRC64;

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Viruses; dsDNA viruses, no RNA stage; Poxviridae; Chordopoxvirinae;
Yatapoxvirus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE=21176366; PubMed=11277691;
Lee H.J., Bsanl K., Smith G.L.;
"The genome sequence of Yaba-like disease virus, a yatapoxvirus.";
Virology 281:170-192(2001).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Lee H.J.;
Thesis (2000), Sir William Dunn School of Pathology, University of.
EMBL; AJ293568; CAC21367.1; -.
SEQUENCE 138 AA; 16059 MW; 100FA621BDAB4108 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Khoo J.G.I., Sin F.Y.T.;
"Noved peptide gene sequence from the lobster Jasus edwardsii.";
Zool. Stud. 38:95-109(1999).
EMBL; AF091369; AAD37832.1; -..
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                                                                                         74.4%; Score 29; DB 4; Length 137; 57.1%; Pred. No. 3.3e+02; tive 2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-NOV-1999 (TrEMBLrel. 12, Created)
01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
01-OCT-2002 (TrEMBLrel. 22, Last annocation update)
01-OCT-2002 (TrEMBLrel. 22, Last annocation update)
Metallochionein-like proctein (Fragment).
Jasus edwardsi, (red rock lobster).
Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca;
Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca;
Eukaryota; Palinuridae; Decapoda; Pleocyemata; Palinura;
Palinuroidea; Palinuridae; Jasus.
growth."; Submitted (DEC-1999) to the EMBL/GenBank/DDBJ databases. Submitted (DEC-1999) to the EMBL/APIGED ARGI7270.1; -. Hypothetical protein. SPOURNCE 137 AA; 15826 MW; 90866F1966195687 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Lee H.J.;
Submitted (JUL-2000) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                    01-YAR-2001 (TrEMBLrel. 16, Created)
01-YAR-2001 (TrEMBLrel. 16, Last sequence update)
01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
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Best Local Similarity 57.1
Matches 4; Conservative
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Q9DHI4
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SEQUENCE FROM N.A.

SEQUENCE FROM N.A.

SEQUENCE TO S. DSM 1617 / P2;

X MEDLINE=2132296; PubMed=1427726;

X MEDLINE=2132296; PubMed=1427726;

X A Mayez M.J., Chan-Weiher C.C.Y., Clausen I.G., Curtis B.A.,

X A Mayez M.J., Chan-Weiher C.C.Y., Clausen I.G., Curtis B.A.,

X A Moors A., Erauso G., Fletcher C., Kozera C.J., Medina N., Peng X.,

X Heikamp-de Jong I., Jeffrites A.C., Kozera C.J., Medina N., Peng X.,

X Heikamp-de Jong I., Jeffrites A.C., Kozera C.J., Medina N., Peng X.,

X Heikamp-de Jong I., Jeffrites A.C., Kozera C.J., Medina N., Peng X.,

X Thi-Ngoc H.P., Redder P., Schenk M.E., Theriault C., Tolstrup N.,

A Charlebois R.L., Doolittle W.F., Dugnet M., Gasterland T.,

A Charlebois R.L., Doolittle W.F., Dugnet M., Gasterland T.,

A Charlebois R.L., Doolittle W.F., Dugnet M., Gasterland T.,

A Thi-Ngoc H.P., Ragan M.A., Sensen C.W., Wan der Cost J.,

"The complete genome of the crenarchaeon Sulfolobus solfataricus P2.";

R. Proc. Natl. Acad. Sci. U.S.A., 98:7835-7840(2001).

R. RENEL, AR006787; AAK41957.1;

R. RICEPPO, IRRO0544; HHB.,

R. REMEL, PP03379; PP0337;

R. PREPERO, PRO3379; PHB; 2.

R. Hypothetical protein; Complete proteome.

SEQUENCE 146 AA; 17058 WW; 039AA714C98B5EBD CRC64;
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STRAIN=204 10545 / 7;
MEDLINE=21456156; Pubmed=11572479;
Kawarzabayasi Y., Hino Y., Horikawa H., Jin-no X., Takahashi M.,
Sekine M., Baba S.-I., Ankai A., Kosugi H., Hosoyama A., Fukui S.,
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01-07T-2001 (TrEMBLrel. 18, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
Hypothetical protein SSO1764.
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0972G0;
01-DEC-2001 (TEMBLrel. 19, Created)
01-DEC-2001 (TEMBLrel. 19, Last sequence update)
01-UN-2003 (TEMBLrel. 24, Last annotation update)
HYPOTHETICAL Protein ST1173.
                                                                                                                                                                                                                                                                                  PRELIMINARY;
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1 LEHDG 5
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Nagai Y., Nishijima K., Otsuka R., Nakazawa H., Takamiya M., Kato Y., Yoshizawa T., Tanaka T., Kudoh Y., Yamazaki J., Kushida N., Oguchi A., Aoki K.-I., Masuda S., Yanagii M., Nishimura M., Yamagishi A., Oshima T., Kikuchi H.;
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Kaneko T., Nakamura Y., Sato S., Minamisawa K., Uchiumi T.,
Sasamoto S., Watenabe A., Idesawa K., Iriguchi M., Kawashima K.,
Kohara M., Matsumoto M., Shimpo S., Teuruoka H., Wada T., Yamada M.,
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DNA Res. 9:189-197(2002).
EMBL; AP005959; BAC52018.1; -.
Complete proteome.
SEQUENCE 147 AA; 15940 NW; 68C38FE0559012BB CRC64;
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Bacteria; Protecbacteria; Alphaprotecbacteria; Rickettsiales;
Anaplasmataceae; Neorickettsia.
NCBL_TaxID=950;
                                                                                                                                                                                                                                                                                                                   74.4%; Score 29; DB 17; Length 146; 100.0%; Pred. No. 3.5e+02; ative 0; Mismatches 0; Indels
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Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;
Bradyrhizobiaceae; Bradyrhizobium.
NCBI_TaxID=375;
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                                                                                               "Complete genome sequence of an aerobic thermoacidophilic Cremarchaeon, Sulfolobus tokodail strain7.";
DNA Res. 8:123-140(2011).
EMBL; AP000938; BAB66208.1;
InterPro; IPR00554; HHB.
Pfam; PF03794; HHB; 2.
Hypothetical protein; Complete proteome.
SEQUENCE 146 AA; 17266 MW; EA2A859AF0485D94 CRC64;
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01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
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U-JAN-1998 (TrEMBLrel. 05, Last sequence update)
01-MAR-2002 (TrEMBLrel. 20, Last annotation update)
groES (Fragment)
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Read T.D., Peterson S.N., Tourasse N., Baillie L.W., Paulsen I.T.,
Nelson K.E., Tettelin H., Fouts D.E., Elsen J.A., Gill S.R.,
Holtzapple E.K., Okstad O.A., Helgason E., Riletone J., Wu M.,
Kolonay J.F., Beanan M.J., Dodson R.J., Brinkac L.M., Gwinn M.,
DeBoy R.T., Madpu R., Daugherty S.C., Durkin A.S., Haft D.H.,
Nelson W.C., Peeterson J.D., Pop M., Khouri H.M., Radune D.,
Benton J.L., Mahamoud Y., Jiang L., Hance I.R., Weidman J.F.,
Hazen A., Cline R., Redmond C., Thwaite J.E., White O., Salzberg S.L.,
Thomason B., Friedlander A.M., Koehler T.M., Hanna P.C., Kolsto A.-B.,
                                                                                                                                                                                                                                                                                                                                                                          Gaps
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SEQUENCE FROM N.A.

SUBDINES-19739304; PubMed=9230387;
Sumner J.W., Micholson W.L., Massung R.F.;
"PCR amplification and comparison of nucleotide sequences from the groESL heat shock operon of Ehrlichia species.";
J. Clin. Microbiol. 35:2087-2092(1997).
BMBL, U96732, AAB65632.1; -
InterPro; IPR001476; Chaprnin_Cpn10.
Pfam; PF00166; cpn10; 1.
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Nature 42:81-86 (2003)
BMBL; AE017030; AAP25863.1; -.
TIGR; BA171; -.
Hypothetical protein; Complete protecome.
SEQUENCE 69 AA; 7803 WW; 687CAP89236197C9 CRC64;
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Pred. No. 2.5e+02;
1; Mismatches 0; Indels
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Pred. No. 70;
1; Mismatches 0; Indels
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NCBI TaxID=198094;
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01-UUN-2003 (TrEMBLrel. 24, Last sequence update)
01-UUN-2003 (TrEMBLrel. 24, Last annotation update)
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Job time : 41 secs
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